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Future Farmer
December - January, 1975-76
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The National
Future Farmer
Owned and Published by the Future Farmers of America

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December-January, 1975-76

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A Word With The Editor

Ring Those Freedom Bells!

New Year 1976 is a special occasion for all of us in the United States. It will start our Bicentennial year.

How will you celebrate? Not just the New Year, but all year.

Make this the year to really get involved. For a start, why not brush up on your American history? Maybe you are already in a history class, or can enroll in one next semester. At least check out a good book or two on American history and read them. Remember those words from the FFA Creed, ". . . even as the better things we now enjoy have come to us from the struggle of former years." Learn about that struggle and particularly as it relates to agriculture. It can help us appreciate many of the things we have and give us direction for the future.

Make a personal commitment to good citizenship. In all federal elections and in many states, you are eligible to vote at age 18. That means a lot of FFA members can vote. Register to vote when you become old enough. Become informed on the issues, and the candidates, and vote your convictions. Encourage your friends to do the same. If you are not old enough to vote in the elections, you can practice democracy by taking an active part in the FFA and other organizations.

Help with your FFA chapter's Bicentennial activity, or year of activities. If your chapter doesn't have one planned, bring the subject up at the next meeting. Each issue of *The National FUTURE FARMER* has a page of ideas other chapters are using called "Bicentennial Briefs." Maybe you can find one your chapter will like.

FFA WEEK is February 21-28, and a good time to let people know about our rich agricultural history, the FFA and vocational education in agriculture.

Put patriotism on parade. Ring those freedom bells!

Wilson Carnes

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The Cover

Winter's grip is here again, affecting people in a variety of different ways. Max Scoggin of Pomeroy, Washington, finds that even in the cold, farm work still needs to be done. He makes it a little easier with an assist from modern equipment. This issue takes a look at some of the other farm management aspects of modern agriculture and ways to get things done faster and easier with better results.

Cover Photo by Gary Bye

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News in Brief

The FFA

LOANS AVAILABLE FOR HEIFERS—If you're under 21 and want to buy a registered Polled Hereford heifer, help is only an application away. Loans of up to $300 are available from the National Council of Poll-ettes youth loan fund. Any boy or girl under 21 may apply, and although FFA membership is not mandatory, the recipient must be or become a junior member of the American Polled Hereford Association. For more information write the Youth Department of the American Polled Hereford Association, 4700 East 63rd Street, Kansas City, Missouri 64130.

FFA EMPLOYS ACCOUNTANT—George Verzagt, a resident of Alexandria, Virginia, has been employed as Chief Accountant for the Future Farmers of America. A 1959 graduate in accounting from Benjamin Franklin University in Washington, D.C., Verzagt also attended two years at the School of Agriculture at Virginia Polytechnic Institute. Born in New York City, Verzagt served as an aidman in the Medical Service Corps during the Korean conflict. In recent years he has worked part-time as a tax consultant for H&R Block and as treasurer and branch manager for Heil Equipment Company, Inc.

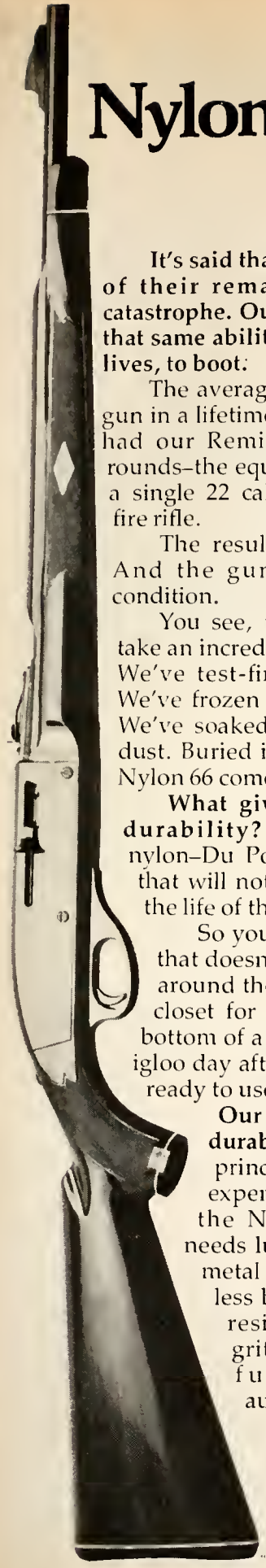
McKAIN SELECTS TOWN CRIER—Immediate past national FFA Secretary Scott McKain of Cruthersville, Indiana, served on a panel of judges to help select the best of several entries in the 1975 Town Crier Bell Award contest sponsored by Elanco Products Company for the National Association of Farm Broadcasters. The contest is to encourage greater effort by the broadcasting media in getting agriculture's story told to urban audiences. Scott is an experienced farm broadcaster and former farm news director for radio station WMPI.

FOR THE CONGRESSIONAL RECORD—An article published in *The National FUTURE FARMER* magazine, "The 1984 World of Farming," August-September, 1975, has been printed in the Congressional Record. The entry was made upon the recommendation of Senator John Tower from Texas. Tower introduced the article with this statement: "In my own state of Texas, FFA provides an outlet for the energy, initiative, and expertise of some 57,000 Future Farmers. There are 919 FFA chapters in Texas, each of which conducts an active program of agricultural activity. Truly, here is an organization that is critical to maintaining America's food factory in the future."

COMMITTEE STUDIES STUDENT MANUAL—Revision of the FFA student manual was the subject of discussion in a two-day meeting held recently at the National FFA Center. The objective of a five-man committee was to develop an outline for a member's handbook tailored to the needs of the member to be used as a teaching supplement. From left, Dan Reuwee, Don Erickson, Coleman Harris, O. S. Gilbertson and Dennis Sargent.

One of a continuing series. **Remington Reports**

Nylon 66. The gun with nine lives. And then some.



It's said that cats have nine lives, because of their remarkable ability to survive catastrophe. Our Nylon 66 automatic rifle has that same ability. And it has at least six more lives, to boot.

The average number of rounds fired in a gun in a lifetime is about 5,000 rounds. So we had our Remington engineers fire *75,000* rounds–the equivalent of *fifteen lifetimes*–from a single 22 caliber Nylon 66 automatic rim fire rifle.

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You see, we designed the Nylon 66 to take an incredible amount of use–and abuse. We've test-fired it at a scorching 250° F. We've frozen it and fired it at minus 40° F. We've soaked it in water. Covered it with dust. Buried it in mud. And each time, our Nylon 66 comes out shooting.

What gives this gun its remarkable durability? A super-tough structural nylon–Du Pont ZYTEL.® It makes a stock that will not warp, crack, chip or peel for the life of the gun.

So you get an extremely rugged rifle that doesn't need babying. It can bounce around the back of a truck, lie in a dusty closet for months, slosh around in the bottom of a canoe or even sit outside your igloo day after day. And every time you're ready to use it, it will be ready to fire.

Our Nylon 66 is as accurate as it is durable. The same barrel-bedding principle used on the world's most expensive target rifles is used on the Nylon 66. The action never needs lubrication, either, because the metal parts glide on "grease-less bearings" of nylon that resist the dirt, dust and grit that can cause mal-functions in other automatics.

Remington engineer test firing the Nylon 66.

We think the Nylon 66 is the most rugged rifle you can buy. In fact, everything about it is rugged but the price. Choose either the Mohawk Brown model–with brown stock and blued receiver–or the Apache Black model with black stock and chrome-plated barrel. Both are tube-fed and have a capacity of four-teen 22 caliber long rifle cartridges.

And while you're at it, get yourself a supply of Remington "High Velocity" 22s with "golden" bullets. They're coated with a special hard, dry lubricant that won't pick up dirt or lint to carry into the mechanism of the rifle. And they have "Kleanbore" priming so they won't leave residue to corrode the barrel. Find out more about our rugged Nylon 66 from your local firearms dealer or write for our free 1975 catalog: Remington Arms Company, Inc., Dept. 308, Bridgeport, Conn. 06602.

Be ready for anything. Get your copy of "Outdoor Tips", compiled and tested by experts. Send your check or money order for $2.95 to: Remington Sportsmen's Library, Dept. 309, P.O. Box 432, Bridge-port, Connecticut 06601.

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by Jerry Clower with Gerry Wood

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Looking Ahead

Agriculture

MILK MAY LIVE FOREVER—A new substitute process for pasteurization developed by University of Maryland dairy science and agricultural engineering departments may increase the shelf life of milk indefinitely. University scientists are satisfied that the process of ultra-high treatment with a new freefalling film heater has definite possibilities for prolonging the shelf life without affecting milk's taste. The equipment used in the process represents an accumulation of 20 years of research in the United States and Europe.

HYBRID HOGS AVAILABLE SOON—Now after years of research and testing, the benefits of hybridization will soon be available to hog farmers in the United States, according to the Dekalb Swine Research, Inc., who have been working with the animal since 1970. "Even though we're a year away from selling breeding stock that's made it through our breeding program, we are confident about the performance of hybrids in our program and we're now setting up a marketing organization," says Roy Poage, Dekalb's general manager of swine research. The hybrid boar of the future may look something like the one at the right. At 180 days, this boar weighed 336 pounds. Feed efficiency from 72 pounds to 336 pounds was 2.79; backfat at 250 pounds—.44.

ANOTHER MILESTONE—When nine 38,000-bushel-capacity steel quonset-type buildings went to the highest bidders in Virginia last August, the government had sold its last structure for storing farm surpluses. It marked the end of an era spanning 35 years in which surpluses bought from farmers under price support programs were stored in government-owned structures. In 1959, storage capacity held by USDA stood at 990 million bushels.

SURVEY CITED BY FARM FORUM—A poll conducted by International Harvester's Farm Forum magazine indicated that only two farmers out of ten feel that a son or daughter is obligated to take over a farm to keep it in the family. Almost half of the 1,000 farmers surveyed believed that their children would have better income opportunities if they left the farm and entered non-agricultural employment. Despite their belief, 63 percent of those responding would encourage their children to enter farming as a career and 79 percent would help their children financially if they wanted to farm.

WORLD RECORD CORN YIELD—A farmer from Saybrook, Illinois, has established a new world record corn yield of 338 bushels of No. 2 corn per acre, exceeding the previous record by more than 30 bushels. Herman Warsaw machine harvested his measured one-acre plot on September 26. The moisture content on the 20,500 pounds of shelled corn measured 21.96 percent at harvest time.

"THAT WE MAY EAT"—Contributions to consumers made by the nation's state agricultural experiment stations—ranging from the discovery of vitamins to the creation of hybrid corn—are featured in the Yearbook of Agriculture, now being published. This year the stations celebrate their hundredth anniversary. The yearbook, written in popular style, will give consumers, students and the general public an insight into the fascinating search for ways to help increase food and fiber supplies and provide a better life for consumers.

KOBE IS COMING—A new breed of cattle, called Wagyu, the native cattle of Japan were due for arrival in the United States in October of this year. These animals will be known as KOBE in this country from the Kobe beef which is a product of national pride in Japan.

We've been making and breaking tradition for 200 years.

The States were still Colonies.
Our Declaration of Independence was still a year away.
But the Navy had already embarked into history.
The tradition launched in 1775 is still our proudest in 1975.
A tradition for seeing the opportunity of the future.
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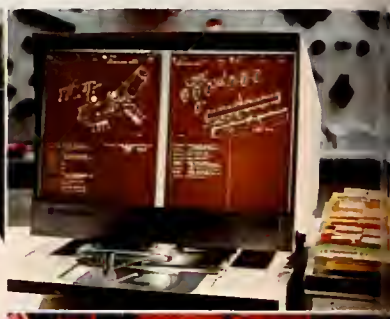

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When you stop by your Product Support Center, you'll find your IH Dealer and his people are just as determined as you are to grow a great crop – only his crop is satisfied customers.

IH Stand by 7

INTERNATIONAL HARVESTER

COME WITH US TO THE 48TH

KANSAS City, Mo., Nov. 14—There were more people here at the 48th National FFA Convention than ever before, 20,000 all counted, meaning long lines to get into the auditorium, busy restaurants, full elevators.

But it was a worthwhile trip for everybody who came. Recognition of achievements of 2,000 members was a big part of the weeklong convention.

Top farmer, Dan Worcester, 21, from Hill City, Kansas, and top agribusinessman, Bryce Westlake, 20, of Kinnear, Wyoming were named Stars Over America in a pageant with all state flags flying, the snappy 115 piece band playing and excitement in the air. Bryce and Dan were selected from among the record number 703 American Farmers who earned the organization's highest degree this year.

On Wednesday night you could hardly find a seat to hear the national public speaking contest. Eddie Blizzard won with his speech "Not Just A Farmer" which was a convincing sales pitch for the profession of farming.

Awards for FFA members came from National FFA Foundation Inc. funds collected by and from America's business and industry. Mr. Edward Carter, Firestone Tire and Rubber Company, worked as chairman of the sponsoring committee in 1975 to raise the money used to sponsor incentive awards for FFA'ers. The committee collected over $678,000 and that figure prompted a goal of $776,000 for the bicentennial year from new Chairman Robert Engle, AVCO New Idea Farm Equipment Company.

The nation's most active chapters were recognized too for their successful total program—123 gold, 111 silver, and 75 bronze emblems were awarded. For the chapters who gave a push for safety, 29 were gold, 34 were silver, and 29 were bronze.

A queen of the American Royal was named from candidates submitted by State FFA Associations. She is an FFA'er from St. Paul, Nebraska, Kay Christensen. Kay is a former accompanist for the National FFA Chorus whose 99 members this year entertained throughout the convention.

There was plenty of inspiration during the week. Vice President Nelson A. Rockefeller told the members assembled, "You have chosen a growth industry." He also reminded FFA members, "Your community needs you, your country needs you, the world needs you."

Following his speech, he stayed on the stage as delegates finished the business session of the organization and elected the '75-'76 National Officers.

In addition to presenting Vice President Rockefeller with the Honorary American Farmer degree, the FFA also conferred that high honor to several other adults who supported the FFA. Among those were many vocational agriculture instructors from around the country.

Funny man and friend of ag people, Jerry Clower, told his crazy country stories. And everybody cheered for Cincinnati Reds All Star Catcher, Johnny Bench, who suggested "to be a member of a good FFA team, you should be a hard working individual."

Besides the events in the big auditorium, there were other activities taking place all over Kansas City. The fourth annual National FFA Alumni meeting was held. Over 200 people were given citations for hard work in recruiting new members to the Alumni Association, now numbering 17,500.

Three alumni members were singled out for service to agriculture and the FFA: Mr. O. W. Randolph, Moorman Manufacturing Co.; Mr. Charles Dana Bennett, Farm Film Foundation; and Mr. Phillip Alampi, New Jersey Secretary of Agriculture.

New Chairman of the Alumni Council is Mr. Richard Waybright, a dairy farmer and past national FFA officer from Gettysburg, Pennsylvania.

Another important meeting was going on during the convention. Nine world leaders in agriculture from Austria, New Zealand, Ireland, Brazil, Panama, South Korea, Colombia, Chile, and the United States convened to plan the First World Conference in Agricultural Education. It's to be held, along with an International Agriculture Olympics, in conjunction with the 1976 National FFA Convention.

For those members interested in exploring agricultural career opportunities, there was a Career Show with spokesmen and literature available.

It was quite a convention—new friendships formed, thousands of pictures taken, an equal number of hot dogs and soft drinks consumed, a first plane ride or a long bus ride to get here, and three or four to a room in hotels all over the city. Big names, big crowds, big ideas, big honors, and big smiles. A big week for the FFA.

Winners

National winners in bold type.

Name of Award	Central Region	Eastern Region	Southern Region	Western Region	Sponsor
Stars					
Star American Farmer	**Daniel Worcester** Hill City, Kansas Hill City FFA Chapter	Roy Mitchell Elkin, North Carolina Surry Central FFA	Michael Vaughn Smithville, Tennessee Warren County FFA	Richard L. Lapp Eckley, Colorado Fort Morgan FFA	National FFA Foundation General Fund
Star Agribusinessman	Ordel A. Stinson Cresco, Iowa Crestwood FFA	Joseph T. Mrugala Springville, New York Springville FFA	Phil Redditt Orlando, Florida Orlando-Colonial FFA	**Bryce E. Westlake** Kinnear, Wyoming Wind River FFA	National FFA Foundation General Fund
Public Speaking					
Public Speaking	David E. Dunlap Greenwood, Indiana	Mark Depta Hubbardsville, New York	**Eddie W. Blizzard** Hollywood, Alabama Scottsboro "A" FFA	Wayne Lee Rush Moscow, Idaho	National FFA Foundation General Fund
Agricultural Proficiency Awards					
Agricultural Electrification	Jeff Ward Michigantown, Indiana Clinton Central FFA	Stephen Craig Allen Thornville, Ohio Fairfield Union FFA	**Clifford D. DePriest** Marshall, Arkansas Marshall FFA Chapter	Bob Huston Guthrie, Oklahoma Guthrie FFA	Edison Electric Institute
Agricultural Mechanics	Ronald Kaiser Little Falls, Minnesota Little Falls FFA	James Felpel Ephrata, Pennsylvania Cloister FFA Chapter	Lewis Lee Tapley Kellyton, Alabama Hackneyville FFA	**David W. Schelldorf** Sundance, Wyoming Bearlodge FFA	International Harvester Company
Agricultural Processing	**Timothy J. Novak** Denmark, Wisconsin Denmark FFA Chapter	Kendall B. Heath Kinston, N. C. South Lenoir FFA	Russell Driggers Jasper, Florida Hamilton County FFA	Nick Seibert Columbus, Montana Columbus FFA Chapter	Carnation Company
Agricultural Sales and/or Service	Dean R. Slabach New Paris, Indiana Fairfield FFA Chapter	**Stan Hicks** Greenville, Ohio Greenville FFA Chapter	Larry Thomas Greenville, South Carolina	Valdon Chris Jensen Huntington, Utah Emery FFA Chapter	Allis Chalmers Corporation
Beef Production	Vaughn Meeks Taylor, Nebraska Loup County FFA	Donald G. Matthews Godwin, North Carolina Cape Fear FFA Chapter	Oscar Harris Screven, Georgia Wayne County FFA	**Terrance P. Bullis** Mariposa, California Mariposa FFA Chapter	NASCO and Sperry New Holland
Crop Production	**Michael D. Smith** Ellsworth, Iowa South Hamilton FFA	Jeffrey C. Miller Kutztown, Pennsylvania	Ronald Jones Brighton, Tennessee Covington FFA Chapter	Ronnie J. Curry Fletcher, Oklahoma Sterling FFA Chapter	Producers of Funk's G-Hybrids
Dairy Production	**Jim Demmer** Ellendale, Minnesota Ellendale FFA Chapter	Jean M. Tugend Jeromesville, Ohio Hillsdale FFA Chapter	Elwin N. Husser, Jr. Franklinton, Louisiana Franklinton FFA	Dwayne Nelson Hilmar, California Hilmar FFA Chapter	Celanese Chemical Company
Diversified Livestock Production	Jeff Stroup Fontana, Kansas Prairie View FFA	Hal J. Stephens Lumberton, N. C. Orrum FFA Chapter	James R. Love McMinnville, Tenn. Warren County FFA	**Marlin Trissel** Mooreland, Oklahoma Mooreland FFA Chapter	National FFA Foundation General Fund
Fish and Wildlife Management	Jerry Allen Ott Churubusco, Indiana Carroll FFA Chapter	**Robert R. McNaughton** New Alexandria, Pa. Derry Area FFA	Ivan Bond Perkinston, Mississippi Stone County FFA	Tim Berry Barksdale, Texas Nuecess Canyon FFA	American Fishing Tackle Manufacturers Association
Forest Management	Thomas E. Brown Alpena, Michigan Alpena FFA Chapter	Randy Lee Mills Goldsboro, N. C. South Wayne FFA	**James Cooper** Wiggins, Mississippi Stone County FFA	Caleb Boettcher Alder, Washington Eatonville FFA Chapter	Weyerhaeuser Company
Home and Farmstead Improvement	**Stan Werling** Woodburn, Indiana Woodlan FFA Chapter	William M. Dotson Palestine, West Virginia Wirt County FFA	Richard Grimes Gadsden, Alabama Centre FFA Chapter	Larry Beals Silverton, Oregon Silverton FFA Chapter	Upjohn, TUCO, Asgrow & Cobb Organizations, Agricultural Division of the Upjohn Co.
Horse Proficiency	Susan Shea Owatonna, Minnesota Owatonna FFA Chapter	**Jodi Lynn Peacock** Spencer, Ohio Medina County FFA	Joe C. Lott, Jr. Oxford, Florida Wildwood Senior FFA	Gary Delzer Reardan, Washington FFA Chapter	The American Morgan Horse Foundation
Ornamental Horticulture	Jerry L. Shelton Crab Orchard, Kentucky Lincoln County FFA	Thomas Green Louisville, Ohio Marlington FFA Chapter	Barry Lee Guthrie McMinnville, Tennessee Wayne County FFA	**Jonathan White** St. Paul, Oregon St. Paul FFA Chapter	National FFA Foundation General Fund
Outdoor Recreation	Suzie Tyrrell Sycamore, Illinois Sycamore FFA Chapter	**R. Alan Boswell** Damascus, Maryland Damascus FFA Chapter	Ronnie Graham Conway, Arkansas Conway FFA Chapter	Scott Skiff Gypsum, Colorado Eagle Valley FFA	National FFA Foundation General Fund
Placement in Agriculture Production	Jeffrey Slusmeyer Paducah, Kentucky Lone Oak FFA Chapter	Neal Wilkinson Kannapolis, N. C. South Rowan FFA	**Eddie W. Blizzard** Hollywood, Alabama Scottsboro "A" Chapter	Jimmy Dean Hill Parker, Arizona Parker FFA Chapter	Hesston Corporation & Shell Chemical Co.
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Building Our American Communities					
National BOAC Citation	Janesville-Parker FFA Janesville, Wisconsin	Big Walnut FFA Chapter Sunbury, Ohio	**Bowman FFA Chapter** Bowman, South Carolina	Tooele FFA Chapter Tooele, Utah	Lilly Endowment, Inc. and Farmers Home Administration

National Judging Contests

Contest	Winning Team	High Individual	Sponsor
Agricultural Mechanics	**Minnesota** (Hawley)—Lyle Hovelson, Kip Marvig, Tim Siegel	Ron Moore, Vinton, Iowa	The Firestone Tire and Rubber Company
Dairy Cattle	Minnesota (Austin)—Rick Rugg, Jeff Rugg, Darwin Hanson	Keith Spinks, Lincoln, Arkansas	Associated Milk Producers, Inc., & Mid-American Dairymen, Inc.
Horticulture	Ohio (Cleveland)—Terry Petrella, Sue Pivnicka, Elena Meloni, Debbie Frederick	Hope Freidrich, Cresco, Iowa	American Association of Nurserymen, Inc., Gulf Protection Products, and Wholesale Nursery Growers of America, Inc.
Livestock	Ohio (Bucyrus)—Mark Goodman, Dale Wolf, Garry Scheffler	Jim Bryant, South Whitley, Indiana	Ralston Purina Company
Meats	Texas (Mason)—Darrel Leigh Jordan, Kenneth Gene Jordan, Dominic Skaggs Martin	Dominic Skaggs Martin, Mason, Texas	Wilson and Co., Jones Dairy Farm, Oscar Mayer & Co., and Geo. A. Hormel and Co.
Milk Quality and Dairy Foods	Missouri (Licking)—Mike Hooper, Randy Ingram, Donnie Maples	Donnie Maples, Licking, Missouri	Associated Milk Producers, Inc., & Mid-American Dairymen, Inc.
Poultry	Kansas (Hillsboro)—Lynn Bartel, Clyde Jost, Joel Suderman	Judy Hickerson, Santa Maria, California	National FFA Foundation General Fund

From left, Douglas Loudenslager, Mike Jackson, Ron Wilson, Bobby Tucker, Leonard Anderson and Elton Bouldin.

New National Officers

National FFA President

Bobby Tucker, 21, of Mineola, Texas, is the son of Mr. and Mrs. Glen B. Tucker. In the Texas FFA Association, Bobby moved through the ranks from district president in 1971 to area president in 1972, and state president in 1973. Tucker won the state public speaking contest and placed third in the national contest.

As a vocational agriculture student under instructors Lester Cole and Glen Dossett, Tucker's supervised experience program included a feeder calf operation. He was also enrolled in a cooperative training program at a local tractor and implement dealer. He continued to work in this position through his first year of college.

At the time of his election Bobby was a Sophomore at Texas A & M University majoring in Agricultural Education.

National FFA Secretary

Mike Jackson, a 20-year-old crop and livestock farmer from Tipton, Indiana, is the son of Mr. and Mrs. Hovie Jackson. His vocational agriculture instructor and FFA advisor is Charles Wolf.

Mike's involvement in production includes corn, tomatoes, soybeans and swine. He was selected the Indiana state public speaking winner in 1972 and served as secretary of the Indiana FFA Association in 1973-74. While in high school, he participated in Hoosier Boys State as Attorney General. After election as a state officer, he enrolled at Purdue University majoring in agriculture economics and pre-law.

At Purdue, Jackson was a member of Purdue Student Government, Omicron Delta Kappa leadership honorary, and Alpha Gamma Rho Fraternity.

Central Region Vice President

Ronald Wilson, 20, from Manhattan, Kansas, is involved in a beef, pork and crop production operation with his parents, Mr. and Mrs. W. John Wilson. His vocational agriculture instructor and FFA advisor is Stanley R. Bartel. During high school, Ron built up a cow herd and a farrow-to-finish hog operation. Crops included wheat and sorghum.

In 1973-74 Wilson served as president of the Kansas FFA Association. He won the state agricultural newswriting contest and placed second in state public speaking competition.

Now a Junior in Agricultural Education at Kansas State University, Wilson is an Ag Ambassador and a member of the student senate and ag student council. Ron is an active member of FarmHouse Fraternity and Alpha Tau Alpha.

Eastern Region Vice President

Douglas D. Loudenslager of Morral, Ohio, is the son of Mr. and Mrs. Don Loudenslager. His FFA advisor at Ridgedale High School was Dennis Swartz. Raised on a farm, Loudenslager's farming program includes 20 registered Hampshire ewes, 30 acres of corn, 40 acres of soybeans and five market steers. He is currently a Junior in Agricultural Education at the Ohio State University.

Loudenslager's experience in the FFA includes serving as state treasurer in 1973-74, and state runner-up in the Prepared Public Speaking Contest.

At the Ohio State University, Loudenslager is a member of Bucket and Dipper, a Junior Men's Honorary, Towers Agricultural Honorary: Alpha Zeta Fraternity and the Agricultural Education Society. He is also Associate Editor of the "Ag Student" magazine.

Southern Region Vice President

Elton Bouldin is a 19-year-old diversified livestock farmer, from Boaz, Alabama. The son of Mr. and Mrs. G. F. Bouldin, Elton started his farming program with the purchase of one duroc gilt and has gradually expanded to include six sows and a small beef and crop operation. Elton also has part interest in the family broiler business which includes four broiler houses with a capacity of 44,000.

More recently Elton's main agriculture interest has been in the field of ag journalism. Prior to his election he was employed as farm newspaper editor.

In the FFA, Bouldin served as chapter president under chapter advisor James R. Hamilton at Crossville High School. Elton also served as the Alabama state president in 1973-74 and was the state Fish and Wildlife Management proficiency award winner.

Western Region Vice President

Leonard J. Anderson, Jr. is a 21-year-old beef and crop farmer from Albin, Wyoming. He recently completed a term as secretary of the Wyoming FFA Association. Accomplishments in his FFA career include Star Chapter Farmer, member of National meats and livestock judging teams, and Star State Regional Farmer. Anderson served as president of the student body in high school and worked on the school paper.

Prior to his election, Anderson was a junior at the University of Wyoming in Pre-veterinary science with a major in animal science.

Vocational agriculture teachers who have guided Leo in the establishment of his enterprises have been Jack Humphrey, Bruce Krug, Duane Cowdin, and Bruce Nelson.

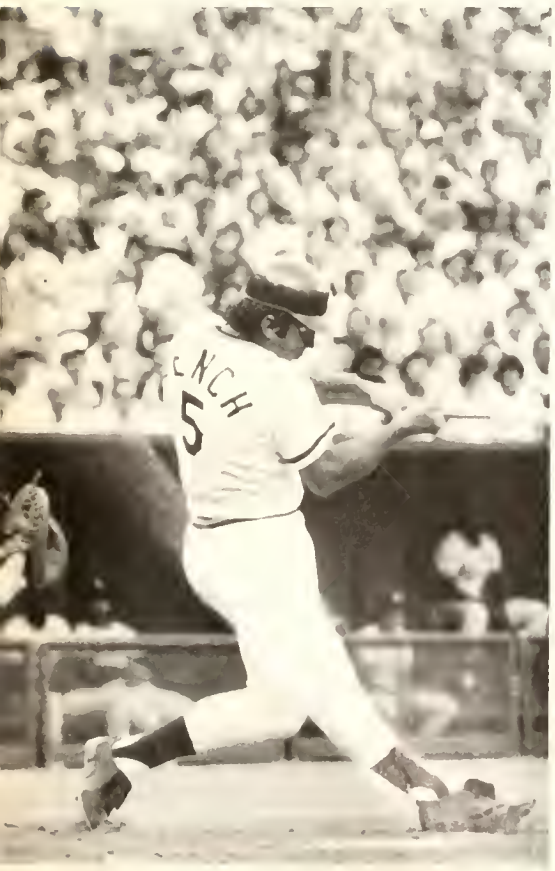
Sportrait

Johnny Bench "Country Boy Catcher"

This famous sports figure addressed the Future Farmers and scored a victory with his remarks.

YOU have an organization quite similar to baseball," noted Johnny Bench in his address to the standing room only crowd gathered at this year's National FFA Convention.

The star catcher for the world champion Cincinnati Reds baseball team compared his early career as a baseball player to a member who joins FFA. He explained the similarity, "When I was a boy I knew I wanted to be a baseball player. And I worked for it. When you become a Future Farmer you start building for your future. You are going to be employed in agriculture someday and there is no better training than what you're doing now."



Johnny Bench helped lead the Cincinnati Reds to their world championship.

Bench, a well known name in baseball was one of several top speakers at the 48th National FFA Convention. The 27 year old Oklahoma native has seven times been named National League All Star Catcher. This year he helped lead the Reds to their first World Series victory since 1940. In winning the National League Western Division the Cincinnati team won a record 108 games, losing 54 for the best won-lost league average since 1909.

According to media experts, this year's series against Boston was watched by over 69 million people around the world. Many called it the most exciting series ever played. The victory helped the Reds erase the growing reputation they had for being a team that loses the big ones—as they did in the 1970 series to Baltimore and again in 1972 to Oakland.

Bench's credentials are widely known. Admiringly called "the rifle" by his peers because of his amazingly accurate throwing arm, he won National League Rookie of the Year honors in 1968, was twice the National League's Most Valuable Player (the youngest catcher in either league to be so named), and is a seven time Golden Glove Award Winner for being the outstanding defensive receiver in the league.

His talent with a bat compares favorably with his work behind the plate. He is a three time RBI champion and two time Home Run King in the National League.

Bench was raised in the town of Binger, Oklahoma (pop. 730) which he describes as lying "Two miles beyond the Resume Speed." The third son of Mr. Ted Bench, a former semipro catcher, Johnny prospered in an aggressively athletic household. It was his father's idea for him to become a catcher. He remained in that position from his early years in Little League through his sophomore year in high school, when his coach thought his strong arm could be put to better use. As a pitcher he compiled a 16-1 record over two years. He had several no-hitters to go with his .675 batting average. In addition to his baseball laurels he was also an all-state guard in basketball and class valedictorian.

In 1965, at the age of 17, Bench was picked in the second round of the pro draft by Cincinnati. After a successful year in 1967 when he was named Minor League Player of the Year, he was called to the parent club where his feats as a big league player are now a matter of record.

Speaking to the FFA audience Bench recalled working on a local farm as a youngster with his good friend Joe Spencer who became FFA's Star Farmer of America in 1968. "I was never in FFA because we lived in town, but I felt a part of it by working for the local farmers," he said.

"Many people ask how I developed physically the way I did; did I lift weights? And I tell them if they've ever been out in a peanut field at midnight loading trucks, or ever hoed cotton, or baled hay they would know. I'm still just a country boy when it gets right down to it," he confided to the FFA'ers.

In concluding his remarks, Bench said, "I'd like to thank the countless number of people who supported our team this year. To know that we are a winner is the greatest thing in the world. And each and every one of you are winners in your own way. The higher you climb and the more you sacrifice and give of yourselves the bigger winner you will be. I wish for you nothing but success in your upcoming years, because through your efforts you can help to make this an even greater America."

I am a Marine. In the 200th year of the Marine Corps. I salute those first few men who, in the winter of 1775, began a military legend. And all who followed in their footsteps. Had they not been the men they were, I could not be the man I am: a United States Marine. That is where I stand. If there are a few good men who want to stand with me... 200 years proud... let them do as I did. Accept a challenge ...earn the title: Marine.

For the Marine recruiter nearest you, call 800-423-2600, toll free. In California, 800-252-0241.

FOUR NEW JOHN DEERE UTILITY TRACTORS

NEW 40-hp* 2040
NEW 50-hp* 2240
NEW 60-hp* 2440
NEW 70-hp* 2640

Choose a job—nearly any farming job—and let one of these new John Deere Utility Tractors take over. From plowing through harvesting, seasonal baling through daily loading, posthole drilling through pasture renovating... these full-season, full-crop tractors stand fully qualified to handle an ultrawide job list. The jobs pictured at right are only a typical sampling.

Qualifications? Start with a "live" PTO for all your PTO-driven machine needs. A draft-sensing 3-point-hitch that automatically adapts to long or short equipment, heavy or light soil, flat or rolling terrain.

Hydraulics that make jobs like turning, braking, 3-point-hitch work and implement control nearly effortless.

Variable-speed diesel engines and 8-speed transmissions that let you easily pinpoint power and speed to the job.

Each is also equipped with an engage-on-the-go differential lock that can be engaged under load—and automatically disengages past the trouble spot.

These four new tractors are much more than John Deere "look-alikes"... they're John Deere "act-alikes".

The new 40-hp 2040, 50-hp 2240, 60-hp 2440, and 70-hp 2640—each reflects and extends the John Deere reputation. Their applications are many... their limitations surprisingly few.

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Family styling that's inherited...Family reputation that's earned

*Maximum horsepower measured at the PTO at 2500 engine rpm (factory observed)

A doll depicting a high-born lady, a wood-and-iron locomotive and tender, a horse-drawn bell toy — all welcome Christmas gifts to youngsters in the 1880's. Justins were favorite Christmas gifts then, too; and have been since 1879, when the Justin Company was founded.

This Christmas, Justin's 97th, we wish you and yours the very best of Holiday seasons. We hope there'll be some Justins under your tree.

Justin *96 Years Of Quality*

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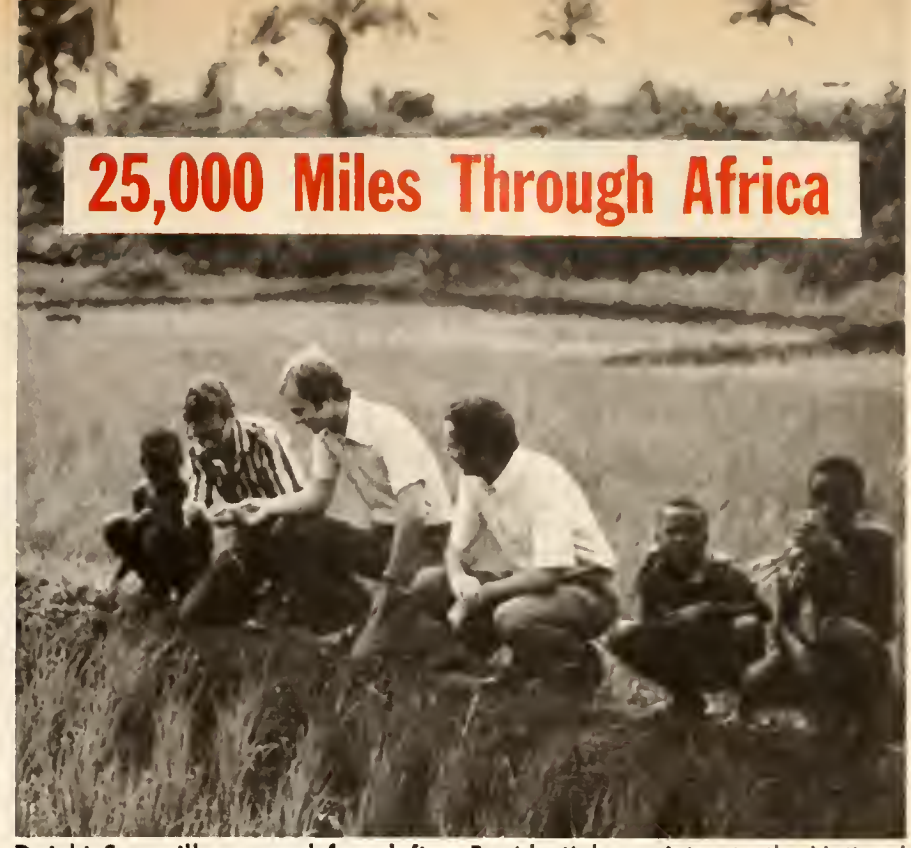

Dwight Seegmiller, second from left, a Presidential appointee to the National Voluntary Service Advisory Council is shown on his tour for the Peace Corps.

"DOING to Learn." That has been Dwight Seegmiller's mission since his appointment to the National Voluntary Service Advisory Council in early 1974. Seegmiller, former National FFA President in 1972-73, is the youngest member on the congressionally-created Council. While a student of ag economics at Iowa State University he was appointed by the President of the United States to serve as one of six worldwide evaluators of the Peace Corps.

The only person on the Council with a farm background, Dwight immediately embarked on an intensive study to learn as much as possible about the Peace Corps' agricultural effectiveness.

First, piles of congressional hearings were studied to get a feeling of the history of the Peace Corps since its inception in 1961.

The Peace Corps has three main goals, explains Seegmiller. The first is for Americans to learn more about life in foreign lands. The second is for non-Americans to learn about the United States through its citizens and the third is to provide technical assistance to developing nations.

Next, Dwight attended monthly meetings in Washington (and still does) to visit with top-level Peace Corps and State Department officials. Visits were made to foreign embassies cooperating with Peace Corps and their ambassadors.

Then in the summer of 1974, Dwight journeyed to Venezuela, Belize, Ecuador, El Salvador, Guatemala and Costa Rica in Latin America to acquaint himself with Peace Corps involvement there.

This past summer Dwight again ventured overseas, this time covering over 25,000 miles on a trip through Africa. He called upon the countries of Ghana, Mali, Sierra Leone, Swaziland and Malawi. The trip involved courtesy visits to the U.S. Ambassador's office in each country. Among those was a personal conference with the Ambassador to Ghana, Shirley Temple Black.

"Our conversation was mainly concerned with Peace Corps involvement in Ghana, but eventually drifted to talk about agriculture and FFA back in the states," admits Dwight. "Ambassador Black recalled a trip she made to Kansas City, Missouri, several years ago when the National FFA Convention was in progress and spoke favorably about what she observed," Seegmiller adds.

After making the appropriate official visits in Africa, Dwight travelled in each country viewing agricultural Peace Corps projects.

Most projects were directly or indirectly aimed at raising the average income of Africans which is less than $200 per year in some countries. Seegmiller attributes the low income to the under-developed agricultural state, which in turn, affects the whole economy.

One agricultural problem Dwight noted was the input package. The basic fertilizer, seed, machinery and credit needed for production are often unavailable to the farmer. And even if they are, the enormous size of the continent has created a logistics problem to market and deliver the grown product.

Aid from other countries is being used to develop roads and marketing procedures and to provide the necessary inputs for the production of foodstuffs.

"The foreign assistance from the United States including the Peace Corps is making progress, but we Americans are often over-expectant," Seegmiller claims.

"Foreign assistance really was started under the Marshall Plan in Europe by former President Harry Truman. Here money was poured into nations scarred by World War Two. A few years later they were productive. But we fail to realize that Europe was progressive long before the war. This is not so in Africa. The people don't yet have the technological know-how to reach maximum productivity. It must take time."

Another problem according to Seegmiller was the uncooperative weather situation. Most countries have a dry season that ranges from three to six months and sometimes longer. During this time, crops and livestock must subsist until the next rainy season. Peace Corps is helping in this area by developing pit silos filled with corn or forage to feed the livestock in the dry season. Irrigation is applied where possible and in some countries swampland rice is being developed to replace dryland rice that is lower yielding and must succumb to the dry season.

In viewing the African agricultural situation on the whole, Seegmiller says there is great potential for those areas not crippled by the drought. Time, money, education and trained manpower provided by Peace Corps and other developmental agencies will be the key factors to continue growth of the areas, according to Dwight. "Once the African farmer has learned the importance of proper agricultural methods and has the inputs he needs, then productivity will flourish," claims Seegmiller.

To sum up his travel, Dwight says, "This once-in-a-lifetime experience has shown me the importance of production agriculture. We Americans are spoiled. Here in the U.S. we become so involved in other non-production adventures that we forget where our basic foodstuffs come from. We must continue to give our American farmers the support and recognition that they do deserve and continue to train our agricultural youth so that they may follow in their footsteps. If this is maintained, then all other endeavors will prosper."

From the Mailbag

Readers Report

Downsville, Louisiana

I am the father of two sons who are members of Future Farmers of America. I have tried to raise my sons the best I know how and like millions of other Americans have raised them to hunt and be good sportsmen.

The little funny you have pictured on The Joke Page in the October-November issue really gets to me, "The farmers on opening day of deer season." It certainly is not funny. It's so far from reality as to be absurd.

We have enough trouble with the people who would have our guns taken away and to stop hunting without help from you.

Think about it before you print something like this in the future.

Jerry Antley
A former FFA member

Bloomington, Illinois

In response to a letter from Mark Shain, Milwaukee, Wisconsin, which was included in the "Mailbag" of your October-November, 1975, issue; I'm enclosing a press kit from our "World's Record Corn Yield"—306.6 bushel per acre.

Needless to say, we at Funk Seeds are extremely proud of this accomplishment by Mr. Orville Montri of LaSalle, Michigan, and are very happy to share it with Mark. I'm certain he will have an excellent paper.

William F. Craig
Funk Seeds International

We sent it on to Mark.—Ed.

Eaton, Ohio

In your October-November edition you carried an article entitled, "Are Junior Market Livestock Shows Outdated?" I don't agree with what the writer said about shows. He thinks, it seems, the shows are meaningless and the sale is the big thing.

In my opinion the first questions after the show are not, "How much do you think he'll bring in the sale?" but, "Is he really the best here?" or a comment like "He deserves to be champion!" In our county fair the sale is hardly thought of until sale day.

Jeff Geeding

Clinton, Oklahoma

In your October-November issue you had an article on junior livestock shows. I thoroughly disagreed with the article, especially on the part about the show sales, in which he said, "that show officials felt that youngsters would face financial hardship if they had to sell at commercial outlets."

In it, he stated the sale had surpassed its good intentions. The way I took it he thinks show stock should be brought down to commercial levels. If stock had to be sold at commercial levels, there would be no shows. The cost of buying good show animals plus the expensive grain, tender loving care, every day grooming and walking, everything that goes into producing a champion, costs hundreds of dollars.

Money is not everything in a livestock show. Anyone who has shown before knows the feeling of excitement, competitive spirit, and pride in something you have worked with and produced to its greatest potential. The joy of winning a championship or the knowledge of being able to start again to push and strive with new animals towards next year's shows is great.

Nothing else can ever take its place. To me, these shows are the backbone of FFA.

Lynda Vieth

Liberty, Indiana

On page 53 of the October-November, 1975, issue you published a picture showing two boys on a tractor. The extra boy is wearing an FFA jacket.

Please help us on the local level to promote safety by not publishing pictures showing what we try to discourage.

A tractor has one seat and should only have one passenger.

David S. Caldwell, Advisor

Thank you for your letter bringing to our attention the picture showing two boys sitting on a tractor which you consider to be an unsafe practice. Actually this is an advertisement and was not created in our office but we agree that safety should be an utmost consideration.—Ed.

Vienna, Illinois

Why doesn't *The National FUTURE FARMER* come monthly instead of bimonthly? I think it is a very good magazine and should come monthly. I would pay the extra money for it. I'm sure others would too. Let's get this magazine more often.

Craig Carlton

Riverside, California

I'd like to thank you for using the picture of my ag hat collection.

While I was in Oklahoma I accumulated 13 more caps which brings the total to 43 caps. I am planning on sending you a picture of the latest slug of them.

Ron Courts

Japan

My dear friends: We are very glad to have this chance to write to you. We belong to the "fruit-tree growing" club and want to know and study more about agriculture overseas. So we would be very happy if we could exchange letters with some high school in your country. We hope we'll hear from some school suitable to our purpose.

Takeshi Katayama
Fujieda Kita Senior High School
970 Kouri
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With its genuine American black walnut stock and solid top receiver, our Model 39 looks so much like the original, it's uncanny.

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Like an action precisely machined from solid steel forgings, then heat treated for the ultimate in durability.

Exclusive Wide-Scan™ front sight hood complemented by a traditional folding semi-buckhorn rear sight. Rust-proof brass magazine tube, simple one-step take-down, blued steel fore-end cap and rugged sling swivels.

And to get the most out of super-accurate Micro-Groove® rifling, the 39 comes with a scope adapter base and offset hammer spur.

The Marlin 39 is just one of eleven Marlin .22 lever actions, bolt actions and semi-automatics. Suggested retail prices from about $41.95. Each and every one, a present with a past. See them at your Marlin dealer now.

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Marlin® Made now as they were then.

Harvest results again say Pioneer® BRAND hybrids consistently stand up and yield best.

In field after field, on farm after farm this fall, farmers again saw a significant difference between Pioneer hybrids and other corns. They saw healthier, stronger standing plants. And, what they saw was confirmed at the elevator with superior yields of drier grain. That means the more Pioneer they planted last spring, the more they made this fall.

But then everybody knows better hybrids come through research. And nobody can match the Pioneer corn research program—the world's largest. That's why nobody can match the performance of Pioneer hybrids.

So, when farmers see they get more out of every acre with Pioneer, they put more acres into Pioneer corn. Even though farmers already plant more Pioneer corn than any other brand, orders indicate the acres planted to Pioneer hybrids will continue to skyrocket.

Now that you've seen the Pioneer advantage, take advantage of it. This fall's results tell you what to plant next spring . . . Pioneer.

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Your Stake in the Economic Community

Events in these United States of Europe may influence your market place.

By Wilson Carnes

Editor Wilson Carnes, left above, spent a week studying the European Economic Community with this group of U.S. ag journalists pictured in front of the Commission headquarters in Brussels. He heard support for the Common Market from a Belgian farmer, left below, the Minister of Agriculture and Fisheries in Ireland, left of center photo, and an Irish dairy farmer.

THE European Economic Community (EEC) is proving to be a workable idea that has helped farmers in the nine member countries. This is what a group of 12 U.S. ag journalists were told during a week-long series of meetings with EEC officials in Brussels and during visits with farmers and farm groups in Belgium and Ireland.

We were invited to visit the Common Market headquarters in Brussels by EEC officials. They wanted to give us an in-depth look at how the Common Market operates. Obvious too, was the desire to improve their relationship with the United States, a relationship that has sometimes been strained in some areas of international trade.

Often called the Common Market or Economic Community (EC), the Community unites the economies of nine nations and has a basic goal of eliminating tariffs between these countries. The original six—Belgium, France, Germany, Italy, Luxemburg and the Netherlands, were united in 1958—and the United Kingdom, Ireland and Denmark joined January 1, 1973. Spokesmen for EC admit they hope to achieve some of the advantages between countries we have enjoyed between states in the United States of America.

While the Common Market idea appears firmly established and working, it has been necessary to change the concept in some instances. A common currency, once thought possible, now seems to be 20 to 30 years away, if ever. One reason is the inflation rate which varies from 6 percent in Germany to 25 percent in Ireland.

Political unity is another idea once thought possible that is now considered impossible. Member countries do agree on one thing, however. Only a democracy can be a member. Spain and Portugal have both been refused membership in the past because of their form of government. Turkey and Greece are seeking association agreements leading to membership though Greece was not eligible when ruled by a military regime. Even so, gaining membership is not easy and it seems unlikely that any new members will be added for quite some time.

The EC was described to us as a complex system that works. That would seem to be an accurate statement. Treaties among the member nations can be compared to constitutions. In practice, the Community institutions have the power to make decisions and execute policies in specific areas. They form a federal pattern with executive, parliamentary and judicial branches. They include the Commission, the Council of Ministers, the European Parliament and the Court of Justice.

Agriculture gets 70 percent of the EC budget. And agriculture in the Common Market countries is quite different from what it is in the United States. They have one-fifth of the land and twice as many farmers. This is a major problem. The small farms will not provide an acceptable standard of living for a farm family. Consequently, an attempt is being made to restructure agriculture in the Common Market countries.

In an effort to create larger farming units, pensions are provided for those farmers who retire, even as young as 55, and allow their land to be combined with another farm. There are also loans and subsidies for farmers who want to expand the size of their operations.

The Economic Community attempts to achieve its objectives through price manipulations and controls. The system is known as the Common Agricultural Policy (CAP).

A simple example of how the system works is this. When there is a surplus of a particular product an export subsidy may be paid to help move the product into world markets. This was the case with dairy products which was a source of irritation between the U.S. and the EC. On the other hand, if the product is in short supply, an incentive may be provided to get farmers to produce more. Prices are also set in a way to make the cost of products from countries outside the Common Market always cost more than the same product produced in the countries.

The CAP seems to be achieving its goal of increasing agricultural productivity. Wheat production increased about 26 percent in a ten-year period and corn was up about 128 percent.

(Continued on page 56)

Surgical removal of fertilized eggs, left, and subsequent microscopic analysis, right, preceed the implantation. The result is a calf crop like the one above. Murray-Grey calves are the first ever born from ova transfer. All five are from the same mother, four were born to host cows, the other was born through the natural birth process.

Agri-Emphasis: Farm Management

Operation: Ova Transfer

By Gary Bye

Space age genetics has yielded small herds of calves from super cows. Despite economic setbacks the benefits survive.

IT WAS the first surgery I had witnessed. The patient lay motionless on her back, restrained and sedated, while the team of doctors and assistants, dressed in sterile masks, gowns and rubber gloves moved hurriedly about the gleaming operating room. Strong florescent lights beamed down from the ceiling.

I wasn't viewing a scene at the local general hospital, but a relatively new and revolutionary technique in livestock genetics. My invitation had come from Jack Zimmer, former Washington State FFA executive secretary and now general manager of Bova Transplant, Inc., located in Stanwood, Washington.

According to Zimmer the operation called ova transfer was a procedure to remove a number of fertilized eggs from a select "donor" cow and transfer them to other cows called "recipients." The purpose? To increase the productive capacity of a prized animal, allowing one cow to produce as many as ten calves in one year.

The technique gained attention in the early '70's and has become an accepted, though expensive, means for speeding the natural genetic contribution of valued animals.

In 1973 and 1974 Bova Transplant, Inc. successfully completed the first embryo transfer and delivery in North America of registerable calves of the Murray-Grey, Guernsey and Holstein breeds. Zimmer explained the step-by-step procedure. It begins long before the operation. First, the donor cow is carefully observed. A medical examination is conducted to be certain she is in good physical health and her reproductive system is normal. During this period of examination, the cow's estrus (fertility) cycle is recorded.

On the fifteenth day following the cow's previous fertile period or "heat", she is injected with a special hormone. This causes the cow to "superovulate." Instead of producing a single egg or ova, as is most common, the cow produces 2 to 20 eggs.

On the twenty-first day of the same estrus cycle, the cow will be fertile (in heat). On this day, the cow is inseminated three times, once every eight hours, with semen from a genetically valuable bull.

On the fifth and sixth day following insemination, a veterinarian examines the cow by rectal palpation. At this stage there will occur on the surface of the ovary one "corpus lutea" for each embryo present in the uterus. If three or more embryos are present, the decision is made to proceed.

With the appropriate number of recipient cows assembled (one for each embryo to be transplanted) a general anesthetic is administered to the donor cow. A midline incision is made in the middle abdomen one inch ahead of the udder. The incision exposes the donor cow's ovaries and uterus. A special sterile media is injected into the lower part of the uterus, which flushes the microscopic embryos from each of the two oviducts into a collecting jar.

When the embryos have been collected they are examined under a microscope and graded for quality. Each viable embryo is next transplanted into the lumen of a recipient cow's uterus. This completes the surgical procedure.

The recipient cows are carefully observed while the embryos develop and come to term. Upon the birth of the calves, blood tests are made and blood types are compared with that of the bull, the donor cow and the recipient cows. These tests confirm the calves are the offspring of the donor and bull. Thus confirmed, the calves are then registerable with the appropriate breed registry association.

Success of the operation varies. Improvements in conception rate and the number of fertile eggs collected have

(Continued on page 56)

No-tillage farming.
It's an investment in your future.

With world food shortages and a desperate need to conserve energy, land and raw materials, no-tillage has become an invaluable resource in farm production.

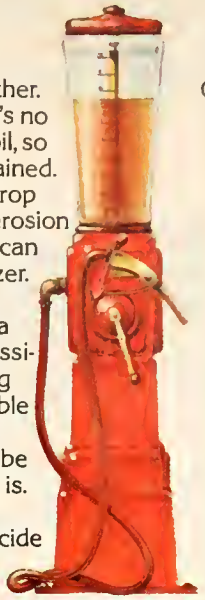
Not too long ago some agricultural advisers (not to mention many farmers themselves) felt no-tillage was a risky business. Things have changed.

Today there are over 6 million acres of no-tillage in major farm states across the nation.

For good reason.

No-tillage and ORTHO Paraquat CL contact herbicide help the farmer make better use of his land. And it increases his production with tremendous savings in equipment cost, equipment life, fuel and labor.

Instead of plowing, disking and harrowing before planting, the farmer can plant, weed and fertilize in one field operation. And there's no concern about the weather.



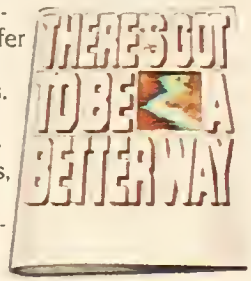
In a dry season there's no plow to churn up the soil, so needed moisture is retained. Since a cover crop or crop residue holds the soil, erosion is reduced. The farmer can save his land and fertilizer. Even more important, where it makes sense, a bonus yield is made possible by double-cropping or putting hilly or untillable land into production.

Today, there's got to be a better way. And there is. No-tillage farming. And Paraquat contact herbicide burns back weeds to make it work. Write on your company letterhead to "There's Got To Be a Better Way," Chevron Chemical Company, P.O. Box 2267, South San Francisco, CA 94080.

ORTHO will send you a free no-tillage booklet that shows actual farmer experiences with Paraquat and no-tillage by return mail.

For best results use ORTHO Paraquat with ORTHO X-77 Spreader.

Danger: Paraquat is highly toxic if swallowed and should be kept out of the reach of children. To prevent accidental ingestion, never transfer to food, drink or other containers. Read the label carefully and follow all directions, danger statements and worker safety rules.



Chevron

ORTHO Chevron Chemical Company

PARAQUAT

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"You don't just pick up a skill in the Army. You're trained in it. And you're trained to respect it."

"The first thing you learn about your job is how important it is. How it fits in. And how many other people will depend on what you know. The Army's serious about your job—and it makes you serious too."

Neil Cheney is a Wheeled Vehicle Mechanic at Fort Lewis, Washington.

"I wanted to work on diesels. Back home, there aren't many places where you can do that. And the way I would've learned—hanging around a good mechanic, picking it up—that's okay, but not as fast as I'm learning now. The Army starts you off with school. You learn the fundamentals. My instructors were good, always coming right to the point about how something works. As for on the job experience, one look at a motor pool will tell you the Army has enough of that for everybody."

If you enlist in the Army, and if you qualify, you'll have over 200 job training courses to choose from. You'll get first rate instruction, and practical experience. You'll also get good pay, 30 days paid vacation each year, and opportunities to travel, and to continue your education.

"When my brother asked me what he could do in the Army, I said, 'What do you want to do?' He said, 'I like carpentry.' Well, he's a carpenter in Germany now. In the Army."

SP/4 Neil Cheney,
9th Infantry Division,
Fort Lewis, Washington.

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For more information about job opportunities in today's Army, send the postcard, or call 800-523-5000 toll free. In Pa., call 800-362-5696.

The new look of leadership

1976 Polaris TX

Sno-Pro performance tuned for the trail!

Introducing the most exciting trail snowmobile the industry has ever seen . . . The 1976 Polaris TX. Direct descendant of Sno-Pro, and Pro-Mod. The first snowmobile to put lightning response . . . and long-range dependability into one package. The first snowmobile to come to market with two years of solid race track testing behind every component system. Polaris TX . . . more than a Sno-Pro look alike. Almost identical to the sleds that have dominated high performance factory racing. The only changes are those which add reliability, and reduce sound levels. The basic Sno-Pro developments are still there. Sno-Pro adjustable aluminum suspension; Sno-Pro cross-over jackshaft; Sno-Pro steering; Sno-Pro chromed cylinders and big carbs; Sno-Pro CD ignition system; Sno-Pro all aluminum chassis and fiberglass pan. Big hydraulic disc brakes. And . . . Sno-Pro styling. Wide stance skis. Racing seat. Ram air vents for positive cooling. Racing windshield. Tach and speedometer. Finally, Sno-Pro performance!

X goes. You won't beat it, n it comes to handling the tricky trails through he back woods where the light touch and ability to handle deep snow and tough hills are what's important. The 1976 Polaris TX. For the snowmobiler who wants more than just a snowmobile... and wants more than just a *high performance* snowmobile. Your dealer has the new '76 Polaris TX series now . . . available with 249 cc, 336 cc and 432 cc SuperStar engines. Limited quantities of all three models. See your Polaris dealer soon.

Special note:
Also new this year is a new Polaris TX Starfire stock racer . . . just like the Trail TX, only a little more so. Your dealer is probably already sold out of Starfires . . . but watch for them on the track. They are going to be throwing snow at a lot of people!

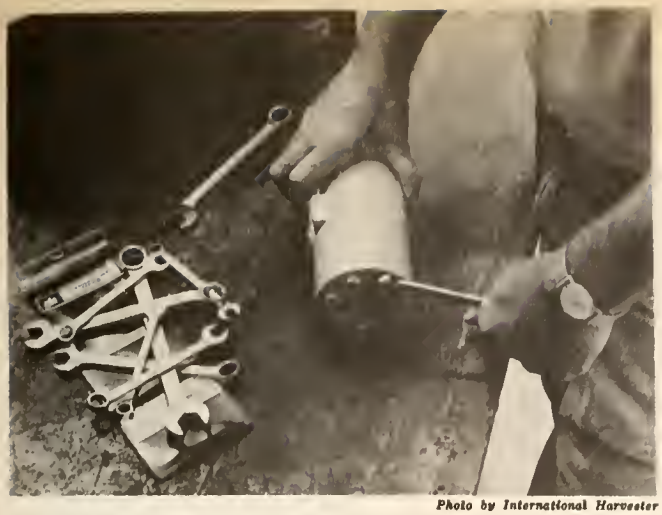

Photo by International Harvester

Agri-Emphasis: Farm Management

Kilogram for Kilogram

Metric Makes Sense

Going metric may put U. S. agriculture kilometres ahead.

YOUR bull has jumped the fence and is heading for the "back 16." You grab your 45 litre hat to shade you from the blazing sun (37 degrees in the shade) and race off in your pickup at speeds over 80 kilometres per hour—legal of course. Once you've corralled the 1,000 kilograms of prize bull you relax a bit and sing along as the radio plays "Walk A Kilometre In My Shoes."

The incident may sound far fetched but the terminology will be "for real" in the near future. America is gradually moving into the metric world. The question of whether the U.S. should convert to the metric system of measurement has been debated for decades. Now for all practical purposes the question is no longer "whether" but "when?"

Use of the metric system in this country was legalized by Congress over a hundred years ago. However, except for a very few segments of U.S. industry and commerce, it has been generally ignored until the last few years.

Today, the U.S. finds itself as the last major industrial nation in the world not either using, or converting to the metric system. About three years ago, Congress was considering (and expected to pass) legislation that would convert the nation to the metric system. Although that particular legislation was sidetracked by other national issues, experts predict that it's only a matter of time before new legislation will be introduced—and passed.

The biggest single reason for conversion to metric is our trade with the rest of the world. Even though only about one-tenth of our gross national product is in foreign trade, it's an important tenth. It has been estimated the U.S. loses from 10 to 25 billion dollars each year in foreign trade alone because our measurements are not in line with the world's standards. And if we hope to increase trade in years ahead, it's imperative we be on the same system of measurement as our potential customers.

However, the metric system has a number of advantages beyond the foreign trade aspect. Think about your own farming system. You store hay by the ton and grain by the bushel. You feed your cattle by the pound, ship your milk by the gallon and are paid for both by the hundredweight. In other words, you're using a mixture of units, and when you need to convert from one to another you have to multiply or divide by numbers like 2,000, 56 or 8.

By comparison when using the metric system to convert and calculate units you always divide or multiply by 10, 1,000 or 10,000. It's a simple movement of the decimal point. Less time is required and there's less chance for error. How much easier it is to harvest hay by the metric ton, feed grain by the kilogram and ship milk by the litre.

The system has only seven basic units compared to 80 in the English system. The unit of length is the metre. The unit of weight (or technically, mass) is the gram. The unit of temperature is the degree Celsius. The unit of time is the second. The unit of electricity is the ampere. The unit of light intensity is candela, and the unit of substance is the mole. From these seven units, all other measurements in the metric system are derived.

METRIC CONVERSION RATIOS

Multiply this unit	× by this number	= to obtain
Inches	25.4	millimetres
Feet	0.3048	metres
Yards	0.9144	metres
Miles	1.609	kilometres
Square inches	6.4516	sq. centimetres
Square feet	0.0929	square metres
Square yards	0.8361	square metres
Acres	0.4047	hectares
Cubic inches	16.3871	cc or millilitres
Cubic feet	0.0283	cubic metres
Cubic yards	0.7646	cubic metres
Quarts	0.9464	litres
Gallons	0.0038	cubic metres
Ounces	28.3495	grams
Pounds	0.4536	kilograms
Horsepower	0.7457	kilowatts

Example: 10 inches = (25.4) (10) = 254 mm. To obtain American units from metric, *divide* by number shown. Example: 508 mm = 508/25.4 = 20 in.

If the prospect of the "new" measuring system frightens you, remember you are already somewhat familiar with metric. You've probably administered drugs to your livestock by the milligram, or added vitamins or micro-nutrients to feed by the gram. Bacteria count for your milk is the number of organisms per cubic centimetre. Your fertilizer needs and plant food deficiencies are usually stated in parts per million.

So you are already involved in the metric system. And once the system has changed, it will touch every part of your life—cooking, building, machinery repair, marketing, land buying, office work and record keeping. About the only thing not affected will be the clock on the wall, since time is the same in every system.

Machinery dealers will carry old spare parts for many years after conversion, just as they carried horse-drawn equipment parts far into the tractor power era. Workers may need to maintain two sets of tools in order to service both systems while the transition is being made.

For most of us, accustomed as we are to our pounds and ounces, our feet and inches, it's hard to visualize the weight of a gram or the length of a metre.

Mathematical formulas—a gram is 0.035 ounce, etc.—aren't especially helpful either. What's really needed then is some way to relate metric measures to objects we all know.

So here is a layman's guide to the metric system, expressed in terms of

(Continued on page 57)

Summerize Now!

While your machinery is standing idle this winter, you can service it and be ahead next summer.

By Melvin E. Long

WHEN you are in the midst of the busy work season next summer, any kind of tractor breakdown or poor performance can be very costly. However, by carefully checking your tractor and other machinery during the winter months, you can avoid many delays.

In many instances, your time will be the only investment required. However, any repairs that are found to be necessary will cost no more in actual cash now than they will next summer.

Here are an even dozen items that you should check. Some will require only a quick look; others may take longer.

1. Crankcase. Drain out the thin, used oil and replace with the recommended summer weight. Do this when the engine has been thoroughly warmed. If your tractor has a filter, replace it.

2. Transmission. The oil level should be checked. If the operator's manual recommends a heavier lubricant for summer use, change it now. Otherwise, add oil if required to bring it up to the proper level.

If the lubricant in the transmission case is above the check plug, you may have a possible warning of trouble ahead. On some makes of tractors, fluid leaking from the hydraulic system enters the transmission case. This leakage may cause damage in three ways: a) If the oil in the hydraulic system is not replaced, it can cause the pump to be ruined; b) It dilutes the transmission lubricant, so that the gears are no longer properly lubricated; c) If allowed to continue, the level of the oil in the transmission case may become so high that the oil runs out onto the brake drums and ruins the brake linings. So, if the transmission case seems to be "gaining" oil, it will pay you to have your serviceman investigate at once for leaky seals and gaskets.

3. Hydraulic system. Most hydraulic systems should be drained and refilled with new fluid at least twice a year. This gets rid of the dirt particles in the fluid, and the water formed by condensation. Be sure to refill with the correct weight fluid before starting the engine. Otherwise, serious damage to the hydraulic pump may result. Never attempt to economize by using used crankcase oil in your hydraulic system. This will only lead to the necessity for a complete overhaul of the hydraulic system. The cost of one overhaul job will buy new fluid for the hydraulic system for the remainder of the tractor life.

4. Steering gear. Check the level of the lubricant in the steering gear case. If needed, add oil to bring it up to the recommended level. In most tractors, it is not necessary to drain the present oil.

5. Radiator. To cool the water, air must pass freely through the radiator core. To insure this, remove the grill, and any other front screens, and blow out dust, dirt, and trash from the back side. For this you can use an air gun, water hose, or even a hand tire pump. With the engine thoroughly warmed, check for any signs of leaks at the radiator top tank, bottom tank, or in the core. Also check the water-pump shaft for signs of leakage around the seals. Repair of these leaks is a job for your dealer or a radiator repair shop.

Next, drain the radiator. If the antifreeze solution looks rusty, it's probably best to discard it. You will probably need to clean the rust out of the interior of the cooling system. A system that is not too severely rusted can be cleaned by the use of a solution of washing soda and water. After filling the system with this solution, run the engine long enough for it to reach normal operating temperature. Drain, and flush several times with clean water. Run the engine each time to get complete circulation.

Extremely dirty radiators are best cleaned by the use of a commercial cleaner. Be sure to follow the directions carefully to avoid damage.

Add some rust inhibitor to the final filling. This will help prevent further rust formation. However, it will not clean up a dirty radiator.

6. Fan belt. Check the fan belt for condition and tension. Look at the underside. Breaks generally start there. A loose belt will slip and prevent the cooling system from doing its job properly.

7. Battery. Be sure that the liquid is at the proper level. If the level is low, add distilled water. Clean up any corrosion on the terminals at the top of the battery. Be sure that the terminal clamps are tight, and coat lightly with vaseline. Be sure that the hold-down clamps are in place. Operation of the tractor over rough ground will jostle the battery enough to break the case, if it is not adequately secured.

8. Clutch and brakes. Adjust the free play in the foot clutch or the over-center action of the hand clutch. Tighten the brakes if necessary, and adjust so that both pedals take up evenly. This will help avoid dangerous side swerves when operating in road gear.

9. Fuel filter. Remove and clean the sediment bulb. This will help prevent the carburetor from becoming clogged with small particles of dirt. Be sure that the gasket is properly in place when replacing the bowl.

10. Air Cleaner. Remove and clean the cup of oil-bath filters. Scrape out the caked dirt in the bottom. Wash the cup with kerosene or solvent. Refill with the same weight oil as you use in the engine. Do not overfill the cup, or oil may be sucked into the carburetor.

If the tractor has a pre-cleaner, or screen over the intake, clean it also.

If the tractor is equipped with a dry-type cleaner, clean or replace as recommended in the operator's manual.

11. Tires. Check for any signs of breaks or cuts in the casings. It will cost less to have them repaired now than during the busy season next summer. Check the rims of the front wheels for dents caused by driving over sharp objects. If bent, straighten the rim by pounding out with a sledge. This will avoid blow-outs caused by pinched tubes.

It's also a good idea to check the inflation pressure of the tires.

12. Nuts and bolts. Last, but by no means least, go over the entire tractor and tighten all bolts, nuts, and cap-screws that have worked loose. This simple precaution will often prevent a lot of serious and costly damage.

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Potatoes Are His "Maine" Objective

State FFA President Scott Williams of Maine is working hard to bring the family farm back into the family.

By Gary Bye

Advisor Paul Lynch visits Scott's operation at the end of another successful harvest.
Photos by Author

"I'VE been picking potatoes ever since I was old enough to see over the top of the barrel," says Scott Williams, the tall good-looking president of the Maine FFA Association.

This year Scott was picking potatoes again, this time on his own 40-acre unit. When the crop was finally in he breathed a typical young farmer's sigh of relief. He'd made it one more year.

Scott's story could be called a typical FFA success story with a twist. He grew up playing an active role on his father's farm near Presque Isle, Maine. Like most of the young people in this potato capital of the Northeast—the autumn days found Scott filling potato barrels for a quarter a barrel.

When Scott reached his teenage years, his father Mr. Phillip Williams began to be bothered by arthritis. Scott filled in for his father as best he could, running the crew of pickers, many who were older than he. But gradually as Mr. Williams' movements became more confined and Scott became busy with school, more and more of the Williams' acreage was rented out. Finally they rented the whole farm.

Scott stayed with agriculture finding a job with the Maine Potato Growers, Inc., a local farmer cooperative. He took a firm hold on the opportunity to learn all about the business, working his way up from groundskeeper, through the farm machinery shop to the parts department. His activity paid off. He was named state FFA Star Agribusinessman and elected state reporter.

Upon graduation from high school Scott made a major decision—he wanted to take over the farm. He'd now come full circle. But getting back into farming was not as easy as getting out. He knew he needed capital to operate so he visited his local Farmers Home Administration office and took out a low interest youth loan of $5,000—enough to farm ten acres of the total 115-acre farm.

"I was the first one in the state to take out a FmHA youth loan," says Scott matter-of-factly. "The loan was

From left to right, Scott, his father Phillip Williams and FFA Advisor Paul Lynch discuss the farming operation.

just enough to cover costs of seed, feed, aerial spray material and harvesting. It was really a trial to see how well I could handle it. I knew I was being appraised by the FmHA and that I needed a good year to pay the loan back if I was to receive any more financing," he recalls.

The powers of nature smiled on Scott's ambitions. When the year's potatoes were in, he had harvested over 200 barrels per acre—an exceptional yield. Following the advice of his neighbors, whom Scott credits with much of his early success, he marketed the crop for a top price.

With the money from his crop and the custom work he had done during the year, Scott returned to FmHA and requested another loan, this time enough to plant 40 acres and to finance the equipment he'd need. Impressed by his knowledge of the business and the success of his initial attempts, the FmHA officials didn't hesitate to make the loan.

The ball had started to roll. Scott bought a much-needed truck, remodelled his farm shop, and assembled the other machinery he needed; a two-row digger, a 300-gallon sprayer, and a ten-row planter. In addition he has acquired a disk, vibroshank, four-bottom plow, and a small wheel tractor. Scott concedes, "Most of it is used equipment and it takes routine repair to keep it running. Now I wish I'd spent more time in the vo-ag shop. But the things I did study in ag really have paid off—potato varieties, diseases, soils, marketing and of course, leadership." His advisor Paul Lynch says many of his classes emphasize potato production—the area's key crop.

Eventually Scott would like to be farming the entire home farm. But following the advice of his father he is moving cautiously—taking the situation one year at a time and learning as he goes. For the present he is concentrating on producing the finest possible crop. "With a smaller acreage I think I can produce a quality product and give each acre more attention."

The potatoes are dug with a tractor mounted two-row digger and picked by hand—a harvesting method still used by many farmers. "This year's crew was the finest I've ever worked with," says Scott of the 26-man crew which was partially recruited by his high school girlfriend. "Working with people is part of farming that is often overlooked."

Scott feels marketing the crop is another key to success. "I'm really looking to the day when I can pack my own crop, making it easier to use the potato futures market. Studying the market and the mercantile has already paid off. And if there's one thing I've learned, it's not to wait too long for the big profit. You might not get it. Sell when you see a profit but don't sell all at once."

This year Scott again fared well despite poorer than average weather conditions. "It's not easy to get into farming," Scott admits, "but it's what I want to do. I enjoy it. Of course the risks are greater than in a salaried job, but then so are the rewards. In agriculture there is room to expand and to better yourself. When I stand at the kitchen window and watch the plants grow each day, I know this is where I want to be."

Top right: Farm loans have helped Scott finance the purchase of the equipment he needs for his operation, such as this tractor and potato digger.

Right: A portion of the total crop is stored for marketing later. Proper handling is important to avoid damage which would lower the crop's value.

Below: Scott visits with crop inspector. Good personal relations is important aspect of farming according to Scott.

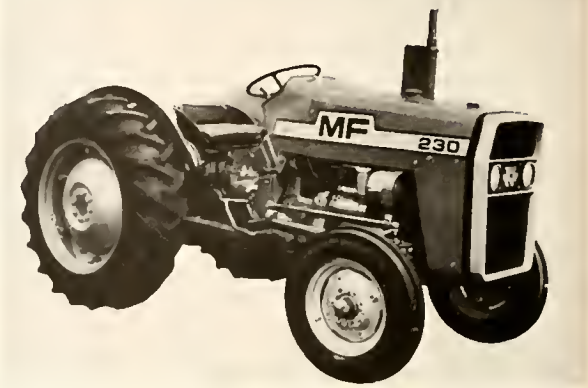
Biggest and most powerful addition to its agricultural tractor line is the new 300 engine hp. 4568 Turbo Tractor by International Harvester. Features include articulated steering.

New 12-row John Deere 7100 Max-Emerge Planter covers big acreages quickly. The planter line now includes 8- and 12-row models that fold for easy transport. Both models utilize hinged frame bars that flex while working uneven land. Frame can be locked rigid.

New flatbed trailer for hauling light machinery and hay, with 18,000 lb. capacity introduced by Donahue Manufacturing Co., Inc. Units available in 20 or 30 ft.

Agri-Emphasis: Farm Management

Something New



For a low horsepower, economy model two-wheel drive agricultural tractor, Massey-Ferguson, Inc. is introducing the 34 hp. 230. Available with three cylinder diesel or four-cylinder gasoline engine.

New FMC Model 600 potato harvester features quiet operation, rectangular truss frame, 63-inch wide digging and trash eliminator sections. Three-speed transmission allows operator speed selection.

New No. 9 V-Chisel from Allis Chalmers has full 30 inches of vertical clearance for greater penetration without trash build-up. Either five or seven shank base units available. Shanks have slip-on points for easy replacement.

J.I. Case Company introduces new hydrostatic four-wheel drive Model 1845 Uni-Loader. Loader is powered by 45 hp. water-cooled gasoline or diesel engine. Loader offers choice of buckets, forks, grapples plus digging backhoes.

Just about everything we teach you in the Air Force is going to be helpful to you in civilian life. As a matter of fact, Air Force training and experience are two of the best references you can have.

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The Air Force offers you accredited technical courses as well as off-duty college opportunities. Through the Community College of the Air Force, you can work towards a Career Education Certificate...a valuable document both in and out of the Air Force. And the Air Force pays up to 75% of your tuition costs for off-duty classes. A transcript of your progress is also available for potential civilian employers or college registrars.

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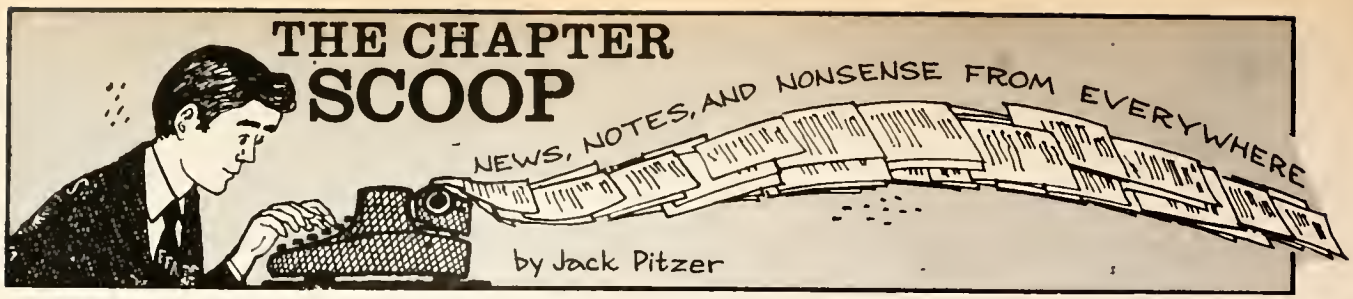
Date of Graduation_____

Look up. Be looked up to.

Air Force



Theme of *Northern Burlington,* New Jersey, float was three little pigs. So they used three live porkers and the big bad wolf was played by chapter secretary **Betty Conover.**

N-N-N

Four chapters took part in the softball tourney organized by FFA in *Raymond,* Nebraska.

N-N-N

A "domestic" exchange between members of *Silverton,* Washington, and *Omro,* Wisconsin, this summer to swap FFA and farming ideas.

N-N-N

All six officers of *Cornell Collegiate Chapter,* New York, are former FFA'ers.

N-N-N

All committees of the *Brownstown,* Illinois, FFA met first hour on September 17. Good start for the year.

N-N-N

In *Jackson,* Louisiana, members raised, cut and sold 1,300 bales of hay.

N-N-N

Norbourne, Missouri, planted 4,500 walnut trees for money-making project. Nutty business.

N-N-N

Report is that Advisors Applegate and Hampton took an unwilling swim at *Sand Springs,* Oklahoma, Chapter ice cream party.

N-N-N

Four *Reidland,* Kentucky, members took top honors in welding competition at the Mid-South Fair—**David Kell, Paul Allmon, Mike Perry** and **David Feezor.**

N-N-N

Four members and two lambs of *Covina,* California, FFA made their television debut in a local car dealer's commercial advertisement.

N-N-N

When 90 Greenhands joined *Belen,* New Mexico, FFA, the membership increased to 200 members and the chapter became the largest in the state.

N-N-N

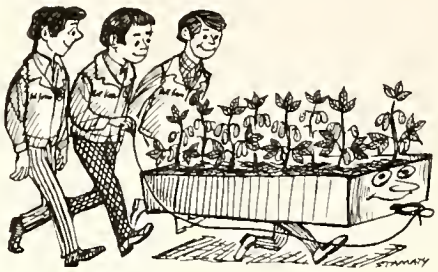
In Thornville, Ohio, they had mass confusion in the school parking lot. So *Sheridan* FFA painted proper markings and the confusion was cleared up.

Erie, Kansas, hosted 170 Greenhands from 16 chapters for a third annual Greenhand conference. Creed winner was **J. C. Parsons,** *Southeast.* Spelldown champs were **Harry Clubine** and **Mike Cooper** of *Caney.*

N-N-N

New students and new teachers were special guests at an all school watermelon feed and recreation party hosted by *Panola,* Oklahoma, FFA.

N-N-N



Armstrong, Iowa, members "walked" their bean test plot before a summer evening chapter meeting.

N-N-N

Hort and ag mech classes of *Scarlet Oaks* Vocational School, Cincinnati, Ohio, teamed up for an annual FFA apple cider sale.

N-N-N

FFA champion market hog at Los Angeles County Fair was raised by **Glenn Davis** and sold for $2.10 a pound. This is the fourth champ raised by **Glenn.**

N-N-N

Be sure your chapter recognizes any donors to the National FFA Foundation that might be in your local area.

N-N-N

The cow milking contest sponsored by *Parkers Prairie,* Minnesota, was for contestants with no experience. "They found it udderly impossible to draw milk from the cow."

N-N-N

Karen Brigner and **Becky Campbell,** *Northwestern-Clark,* Ohio, FFA'ers got into a greased pig contest with 20 girls at the county fair.

N-N-N

Ten *Cheyenne,* Wyoming, members gave blood for their community.

N-N-N

Clarksville, Tennessee, had a "call-a-thon" to express thanks to businesses who supported the chapter.

N-N-N

In Traflagar, Indiana, *Indian Creek* FFA held an ag "Superstar" contest for skills like corn shelling, log cutting, nut and bolt fitting, rope climbing, tobacco spitting and nail driving.

Boys against girls in a wood sawing contest in *Worcester,* Massachusetts, chapter. Boys say they won.

N-N-N

Bowling Green, Ohio, invited a local collegiate soccer team to a chapter meeting. FFA'ers learned fundamentals of the game and then formed squads.

N-N-N

There will be new red, white and blue picnic tables in the park in *Ridge Farm,* Illinois. An FFA BOAC project.

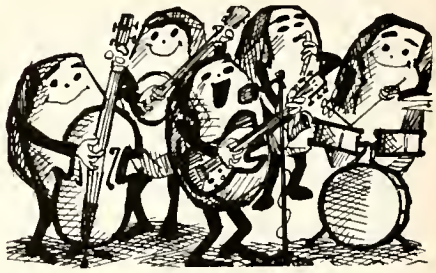
N-N-N

Housatonic Valley FFA'ers in Connecticut conducted a five-week snowmobile safety course.

N-N-N

Washington, Indiana, Chapter had 12 different Official FFA Calendar orders. Each order had a different business sponsor. The chapter will earn a big sales commission, too. That's a record.

N-N-N



"Our FFA rock band at *Kanawha,* Iowa, is called "Free Ride Express."

N-N-N

Horticulture members in *Scottsboro,* Alabama, make flower arrangements for the faculty and school staff.

N-N-N

Several new officers of Junior Charolais Foundation are FFA'ers. **Carolyn Nord,** Illinois, vice president; **Nelson Ward,** Ohio, secretary; and **Dan Schuster,** Minnesota, Treasurer.

N-N-N

Terry Hendrickson wrote about *Enola,* Arkansas, successful money maker—hauling hay.

N-N-N

A local agribusiness firm ordered FFA caps to give out during FFA WEEK in *Larimer County,* Fort Collins, Colorado.

N-N-N

Officers of *Bottineau,* North Dakota, demonstrated humorous parliamentary procedure at PTA meeting.

N-N-N

Sure anxious to get word of unusual ideas that make your chapter meetings more interesting, involves all the members, or is just plain FFA fun.

Maybe the reason you're not into shotshell reloading is the very reason you should be.

Money.

Believe it or not, that's one of the strongest arguments in favor of doing your own reloading.

Sure, you've got to buy a couple of goodies. But you can get away with everything you need for as low as $79.

And it can be MEC equipment at that.

Then, around ten boxes of reloads later, the whole thing's about paid for itself.

Type of Shotshell (Box of 25)	Store Bought Price* (At average discount store)	Handloaded Price* (Average discount on components)	Savings per box
10-ga. 3½" Mag., 2 oz. shot	$12.90	$2.50	$10.40
12-ga. 3" Mag., 1⅞ oz. shot	$ 7.00	$2.20	$ 4.80
12-ga. 2¾" Mag., 1½ oz. shot	$ 5.50	$2.00	$ 3.50
12-ga. Target load, 1⅛ oz. shot	$ 3.00	$1.50	$ 1.50
20-ga. 3" Mag., 1¼ oz. shot	$ 5.00	$2.00	$ 3.00

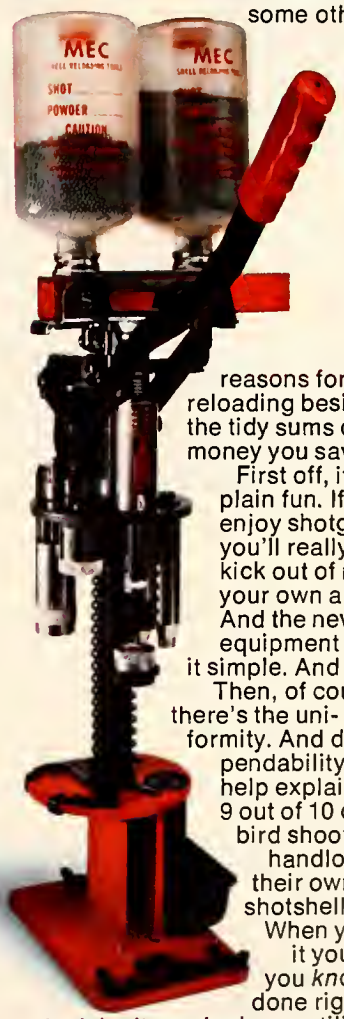
*National Survey Conducted August 1, 1975

This little chart sums it up quite nicely. The figures are approximations, but you can see that you don't have to be a weekly trap shooter to make shotshell reloading pay off.

Especially since today's plastic shotshells can be reloaded from 10 to 15 times.

Money isn't everything.

Say you just inherited a million dollars. You could afford to buy all the factory loaded shells you wanted. True. But, Mr. Millionaire, there are some other



reasons for reloading besides the tidy sums of money you save.

First off, it's just plain fun. If you enjoy shotgunning, you'll really get a kick out of making your own ammo. And the new equipment makes it simple. And safe.

Then, of course, there's the uniformity. And dependability. Which help explain why 9 out of 10 clay-bird shooters handload all their own shotshells.

When you do it yourself, you *know* it's done right.

And don't overlook versatility. You can experiment with custom loads. So you wind up with tailored shells, tuned to your shotgun. And your game.

Who are we and why are we telling you all this?

This message comes to you from the people at MEC, Inc., makers of the leading line of shotshell reloading equipment. And the good ol' boys of CCI, makers of the finest shotshell primers and the new Flare Wad.

Our intentions are obvious.

The more people we can acquaint with the realities of reloading, the more products we're going to sell.

So you end up saving some money. And we end up making some.

What a happy state of affairs.

Mayville Engineering Co.
Dept. FF-12
Mayville, WI 53050

You've primed my interest. Please tell me more about how I can save by reloading shotshells.

Name _____

Address _____

City _____

State _____ Zip _____

Rick Harrison, at left, and his father talk over practice.

The Goal's the Same

After practice there are chores to do. Rick is New York State FFA Secretary.

IT WAS a typical pose for a football coach—body tensed with one hand clutching the dangling whistle, the other waving orders to the helmeted young men. His cap was pulled low over the slightly strained eyes (the sign of a man with too few hours in a short day), and his cleated shoes gripped the roughened turf. "Numbers and lower," he yells to the two quarterbacks who are routinely firing passes to their receivers.

This is Roger Harrison's world on a fall afternoon—but only one part of it. In addition to being the high school football coach with a career record of 96 wins and 40 losses, he is also a successful agriculture teacher at rural Barker High School in New York State. He and his family are firmly entwined in FFA and school activities. To find them after the two-thirty dismissal bell just look for the most action.

Rick Harrison, the leading receiver for the varsity and his dad are busy on the practice field as are the Harrison twins David and Daniel, age 11, who act as the team's managers. Kathy and Peggy, two of the high-school age Harrison girls are at cheerleading practice.

Barker members Randy Atwater, left, and Jim Bittner consult their advisor.

When that is over, they might catch up on some FFA chapter business. Kathy, a junior, is chapter secretary and Peggy, the freshman, is a district FFA representative. Another sister Sue, who's now in college, was runner up in the state FFA talent contest two years ago and served as chairman for Barker's winning forum team.

Rick also held chapter offices—president, vice-president, and secretary before being elected state FFA secretary. Last year he was named the FFA's Northeast Regional Proficiency award winner in Home and Farmstead Improvement—and this year along with Kathy led his team to a first place finish in the state livestock judging contest.

"Our friends call us the Waltons," says Rick of his family, "because we're always hurrying home to do chores. We've got a big family (three boys and four girls) and each of us has a job to do. That's the only way we can get it all done. Tonight we'll chop corn silage until dark. Last week we seeded wheat."

Rick has 35 acres of corn of his own, as well as 10 crossbred feeder calves. In 1973 his corn projects earned him $250 as the national winner in the Muncy Chief corn growing contest with a yield of 210 bushels per acre. He also won the state's FFA Crop Proficiency award last year.

"I've been lucky enough to win over $1,400 in scholarships and prizes through FFA and agriculture," he admits proudly. "Just about all of it has been reinvested back into my farming program."

Rick and his sisters have also made extensive use of the Farmers Home Administration youth loan programs, borrowing over $9,000 a year ago, all of which has been routinely paid back. The girls raise corn, pigs and calves on the 330-acre farm which Mr. Harrison says was purchased when he began teaching 21 years ago.

"We thought that with the large family a farm would give us something to borrow against when the kids were ready to start college. It's been a terrific opportunity for them—teaches them responsibility and gives them a chance to explore a lot of things."

During football's off season Harrison keeps busy coaching Little League or running an active Young Farmers' program. During the winter he also coaches the FFA's basketball team.

The chapter seems to have suffered little from the Harrisons' many other involvements. The trophy case is loaded with plaques, banners, and cups stamped with the FFA emblem. Another of the Barker members, Jim Bittner, holds the office of state FFA treasurer. A national gold emblem winner last year, the chapter has ranked as one of the top two chapters in New York for 14 out of the last 15 years.

"We're proud of that," says Mr. Harrison. "We've also had the top forum team three times and this year we are starting a major BOAC project."

Harrison explains why he keeps up the busy schedule. "Involvement is the word toward helping young people. As an adult what you do to assist them will be repaid many times over in terms of the success of your society. I don't think that a minute we spend with young people is wasted. As far as football is concerned I like the contact of the many young men that I would not normally have in agriculture class or the FFA. I'm really not too concerned with what the particular activity is, just so I'm giving it my best and working for young people. The goal is really the same."

FFA 50th Anniversary Contest

Obverse

Reverse

Design the reverse side of the FFA Commemorative Medallion and win these exciting prizes

FIRST PRIZE: Expense paid trip to Kansas City Convention in 1977 with your advisor (with appropriate recognition on stage including a slide showing the finished medallion).

SECOND PRIZE: $100.00 Cash

THIRD PRIZE: $50.00 Gift Certificate

FOURTH PRIZE: $25.00 Gift Certificate

FIFTH through TENTH PRIZES: Bronze Medallion

1. This contest will be open to all bona fide, dues-paying FFA members on the roles as of June 15, 1976.
2. All entries become the property of the National FFA Organization, and cannot be acknowledged or returned.
3. Entries must be postmarked by June 15, 1976, and received in the National FFA Office by June 30, 1976.
4. Entries are to be submitted on a plain sheet of white paper, with the medallion design enclosed in a circle approximately eight inches in diameter. Drawings may be in ink or pencil.
5. Entrant's name, address, chapter name, state and age must be **printed** on the drawing submitted. Entrants may, at their option, explain their drawing for clarification if he/she desires, however, these explanations must be on the same sheet of paper as the drawing.
6. Entries are to be mailed in an envelope to: MEDALLION CONTEST, NATIONAL FFA CENTER, P.O. BOX 15159, ALEXANDRIA, VIRGINIA 22309. No other correspondence will be placed in this envelope. Questions must be mailed in a separate envelope to Medallion Contest Director at the National FFA Center.
7. Entries will be judged on the basis of originality, thoughtfulness and subject matter.
8. Judges will have full authority to alter, modify or change the winning design to conform with production requirements as necessary.
9. Winners will be notified in February 1977 after final review by the National Board of Directors.
10. Prize winnings will be the sole responsibility of the winners in respect to any Internal Revenue rules in effect.
11. Judges' decisions are final and not subject to appeal.

You need not be an artist to enter. Judging will be done on the basis of originality, thoughtfulness and subject matter.

Here's What They Did During FFA Week

Your chapter can borrow an idea or two from these chapters who told us about their WEEK activities from the planning stages through implementation.

Ruby Mountain, Elko, Nevada

We start planning for FFA WEEK in December by ordering our supplies so that we can get them in time and also we can forward our billboards to the company in Reno.

In January the executive committee outlines final details and selects a window display chairman from each class. The chairmen meet with their committees to decide the theme for their window and all chairmen meet to request chapter owned materials like the banner, motto, podiums, and trophies. Committee work is done during noon hour and after school to build displays. On Saturday morning of FFA WEEK members set up displays.

The seniors' theme was Decade of FFA (1964-1974). The juniors chose FFA Involved With Safety. Sophomores had FFA Involved In Beef Promotion. One freshman class had FFA Chapter Awards 1974; another had FFA Develops Leadership and a third freshman class had FFA Alumni.

Around six to eight members work on each display. Our FFA Alumni members judge the displays with winners receiving bonus activity points.

Each year we try to add a new project for FFA WEEK and this year it was conducting a flag raising ceremony each morning before school. Members from each class conducted the ceremony. We had a member play on his trumpet to start the ceremony and then members said a few words and raised the flag for the salute.

The whole student body and faculty were invited. Because we had so many students wanting to conduct the ceremony we had to have tryouts. We are looking forward to making this an annual event.

To raise money for an FFA scholarship, our members bake pies. Then our advisors' wives along with the mayor judge the pies. We take the top ten pies to the local Kiwanis Club meeting and auction them off. The other pies are taken to the teachers' lounge and we share with them.

Our reporter is in charge of all activities and we budget from $75 to $100 to cover expenses.

The daily ritual of raising the flag stimulated improved school patriotism.

Missoula, Montana

We gave out FFA packages made up of litterbags with bumper stickers, pocket notebooks, pencils, state calling cards, chapter calendar, and special FFA WEEK pens in them to sponsors and supporters.

Local radio station KGVO sponsored a speech contest for FFA. They gave part of the revenue from advertising for our FFA Awards Banquet. (*Roger Holt, Vice President*)

Jamestown, North Dakota

The public relations committee is headed by our chapter reporter and is assisted by our chapter photographer.

Each year our chapter selects an area church to attend as a group. This year our membership chose Immanual Lutheran where Pastor Dave Knutson is a former FFA member. A special prayer was read by one of our local officers.

Wednesday evening FFA'ers fed more than 1,000 eager eaters at their annual pancake supper, an event the community looks forward to each year. (*Jim Nayes and Rosemary Meikle*)

Horace Maynard, Maynardville, Tennessee

Our chapter effort is directed primarily in three directions: a goodwill tour to local businesses and offices; a special FFA WEEK edition of the local paper: displays, bulletin boards and window displays.

The goodwill tour is made up of the chapter officers and six or seven other members in official dress, along with the advisor. All ag related businesses and offices in the community are visited as well as court house offices including the county judge's office to get the proclamation signed. Transportation for the tour is provided in the chapter owned pickup which features an insulated and heated camper area and bus seats.

An alumni member takes the vo-ag classes so the advisor can make the trip. Members pass out FFA WEEK pens and litter bags on the tour.

The chapter neither sells nor solicits advertising on the goodwill tour. We feel this would defeat our purpose. The local paper solicits advertising for our special edition after the goodwill tour is completed.

The local paper usually devotes seven to eight pages to FFA WEEK. Articles and pictures are prepared by members and delivered to the paper starting about two weeks before their FFA WEEK deadline. The chapter has its own darkroom and camera equipment. All pictures are printed by chapter members and provided to the paper in the correct size. (*Paul Byerly, Advisor*)

Members visited with Mr. Ruble Jessee, manager of the local farm cooperative.

Denmark, Wisconsin

Planning for the next year is started right after we finish FFA WEEK. Our committee asks for recommendations from the members.

Our chapter junior president, Ron Treml, headed the group committee and John Schultz was our co-chairman.

We purchased 2 outdoor billboards, 1,000 litterbags, 500 envelope stuffers, 12 miniature billboards, 24 posters, a bulletin board kit, 100 tent cards, 2,000 placemats, 125 bumper strips, 200 pens

and FFA slides. We budget about $300. We also distributed 300 Official FFA Home & Office Calendars.

All 265 Denmark FFA members are involved with the overall activities. The one activity which needs cooperation from the community, members and parents is our 36-page supplement to the local newspaper. This is a terrific public relations piece of material and describes the growth of the chapter. We have exceptional support from all concerned during the year and especially during National FFA WEEK. The supplement is paid for by the 120 advertisements. And the chapter takes all the pictures, writes all the stories and captions and gets all the ads. (*Ken Seering, Advisor*)

Kimball, Nebraska

Wednesday was the main day for activities for our chapter. Besides having two of our officers on local TV that day, the chapter held its annual Businessman's Breakfast.

The breakfast was at 7:00 in a local restaurant and over 120 farmers, ranchers and businessmen from the area attended. Junior and senior FFA members ate with the guests and were in official dress.

The FFA employed a home economics class to bake some cherry pies. Then after school on Wednesday faculty members were invited to the vo-ag classroom for cherry pie and coffee. They also visited the shop and saw the projects being built by members.

Finishing up National FFA WEEK in Kimball was an FFA Alumni Dinner-Dance held on Saturday, February 22, at a local restaurant. It was a great success and it might be made into an annual event. (*Bob Caudillo, Reporter*)

Lamar, Colorado

Preliminary planning was done in May of 1974 when work on the program of work began. Final planning was carried out in September of 1974 when it was finalized. Supplies for FFA WEEK were ordered in December. At the January, 1975, meeting the final touches were put on the plans for the week.

Each officer was appointed chairman of a committee and their efforts were coordinated by the president Tim Brann. The budget included $35 for WEEK supplies and $155 for the chili supper.

The chili supper was the highlight of the WEEK. Members, parents, friends of FFA, officers and advisors of other vocational youth groups, advisors and representatives of area FFA chapters, and members of the vocational agriculture advisory council were invited. Members of the high school "Sounding Board," a group of parents and other citizens who serve in an advisory capacity for the school, was a new group invited so that they could become better acquainted with the purposes and functions of FFA.

Mattabesett, Middletown, Connecticut

Our different activities were delegated to the mini chapters of our general chapter. (Each of our classes has its own mini chapter with officers.)

The senior chapter constructed an exhibit in the school using the FFA WEEK bulletin board kit.

The junior chapter prepared a newspaper article telling what FFA is and why we celebrate the WEEK. They also arranged a radio interview.

The sophomore chapter contacted an outdoor advertising agency to have the billboard put up. This company does this for a nominal fee.

The freshman chapter invited a state officer to the monthly chapter meeting.

Hamilton, New York

Preparation is started months ahead with the Greenhands forming the committee guided by the chapter president. We budget $50-$75 for supplies.

Planning involves getting every member involved, and each year the new crop of Greenhands tries to outdo the previous class. (*George Halloran, Advisor*)

Clark County, Winchester, Kentucky

Several activities are planned each year by the public relations committee for FFA WEEK. In order to get the materials needed for FFA WEEK, planning started in December when an order of supplies was sent to the FFA Supply Service. The order totaled $74.50 and included 1,500 litterbags.

Each of the three banks in our town agreed to order 500 litterbags to pass out to their customers. Customers could pick up the bags at an FFA display table. Displays included plaques, pictures and scrapbook. For those who used the drive-in windows, a litterbag was given with their receipt.

Bumper stickers were ordered and sold to the FFA members to put on their cars. (*Anthony Smith, Advisor*)

James Farris, left, and Scott Berryman appeared on Kitty Clark's radio show.

Alexander City Junior High, Alabama

The Alexander City Junior High FFA Chapter has special coverage on the local radio station with spot announcements on the radio starting the first of February which involves all members. The local radio announcer comes to the January meeting and makes a tape of each member saying something like "This is John Henry Jones, son of Mr. and Mrs. John Jones, reminding you that National FFA WEEK is February 15-22, 1975. I enjoy the FFA."

The local newspapers give good coverage, too. In addition to articles sent to us by the National Organization in the free How-To-Do-It booklet, we use pictures of each class and the officers.

In order to make week-long activities successful, we begin to plan during the officers' workshop held in the summer just before school opens. We designate each officer to a certain area of planning (getting the speaker, decorations, menu, publicity). (*Jerome Campbell, Advisor*)

Mayor Thompson made FFA WEEK official as members witnessed him sign.

Goldendale, Washington

The chapter senior members sponsor a free businessmen's and farmer's breakfast to show their appreciation for the help the chapter has received over the past year.

This is an annual breakfast of hotcakes, eggs, sausage, milk and coffee. This year the chapter served about 300 businessmen and farmers from the community.

Each businessman and farmer received a Goldendale FFA keychain.

On Sunday members met at their choice of churches to represent FFA. After church attendance the members met at the school for a free breakfast sponsored by the chapter and after the breakfast the gym was opened for a recreational afternoon.

Bicentennial Briefs

"CELEBRATE 76"—will be the theme of FFA activities to mark the nation's Bicentennial next year. Eight FFA activities have been identified for special emphasis during the Bicentennial year. CELEBRATE 76 was introduced to FFA chapters during the National FFA Convention in Kansas City, Missouri, November 11-14, 1975. Chapters will receive additional information on the program following the convention. Chapters participating in four or more of the eight activities during '76 will be recognized during the 1976 National FFA Convention as FFA Bicentennial chapters. The eight activities are: Food For America, Washington Leadership Conference, International—Work Experience Abroad, National FFA WEEK, FFA Alumni, Official FFA Calendar, Building Our American Communities, and Farmfest 76.

Denmark members got into the birthday spirit with this bulletin board.

BICENTENNIAL BILLBOARD—*Denmark, Wisconsin*, FFA members developed an appropriate billboard prior to last year's National FFA WEEK. "American Revolution Bicentennial—1776 to 1976" was the theme. "Any chapter can promote the celebration," say Denmark FFA'ers. "American agriculture has played a huge role in the progress of our nation and all chapters should plan at least one worthwhile activity in this regard." We agree, Denmark.

HISTORIC MISCALCULATION—As the Bicentennial year approaches it is interesting to note the comments of some of this country's founders. Thomas Jefferson estimated it would be about a thousand years from his day before there would be towns and farms from coast to coast. That would make it the year 2776. We've been to the moon in less than 200 years. Where might we be in 2776?

PRESTON PLANTS POLE—This year in keeping with the patriotic spirit of the FFA, the Preston FFA Chapter built a flag pole and installed it for the Franklin County Nursing Home and Hospital in *Preston, Idaho*. The officers then conducted a flag raising ceremony with the members of the nursing home.

MARSHALL REBUILDS BANDSTAND—In *Marshall, Wisconsin*, the Marshall FFA Chapter is working with the village Bicentennial committee on two community projects. The chapter is helping restore a community bandstand that was once a center for community activities but now a discarded building. They also are acquiring trees for planting by community members. There will be a special Bicentennial tree planted on Arbor Day, 1976.

A NOTABLE QUOTE—from Chief Justice Warren Burger for the *Bicentennial Times*. "For 200 years philosophers, historians and political scientists have called our Declaration of Independence one of the most momentous political documents in all history. The basic ideas it advanced had been expressed many times before 1776 but never before had they been assembled and asserted in one instrument to outline a charter of liberty for every individual within its reach. It severed our political ties with the mother country, stated the reasons for the separation, and became a guide for the framers of the Constitution. It was more than independence—it was opportunity."

A flag raising ceremony was held by FFA chapter officers for patients at the county nursing home and hospital.

PUMPKIN FESTIVAL FLOAT—In their observance of the Bicentennial, FFA members at Springs Valley High School, *French Lick, Indiana*, constructed a float which won the first place trophy in the community's Bicentennial Pumpkin Festival. The float's theme was "Mighty Agriculture Says Happy Birthday USA" and featured FFA members as the revolutionary figures responsible for our independence. A sub-theme—200 Years of Abundance—was dedicated to our nation's farmers. The chapter has also established a dixieland band which plays at special events around the community. National FFA WEEK was observed by a tractor demonstration and parade by many of the members as they drove tractors through town and on to school. Springs Valley FFA Advisor Robert Guillaume says in addition to the float, a horse unit has been organized for parades.

FFA members in Springs Valley, Indiana, took up fife, drum and plow for their salute to the Bicentennial. The float won top prize in the Pumpkin Festival.

THE ARMY RESERVE. PART OF WHAT YOU EARN IS PRIDE.

You may join the Army Reserve to learn a skill or to earn a second income. But you could come away with something a lot more important.

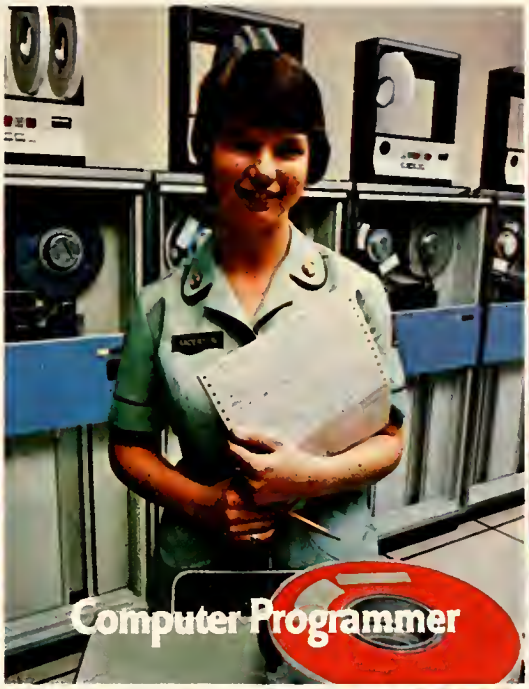
It's not something you can put in the bank. It's not something you can buy either. You pay for it with your sweat, your spirit, your mind, and your time. It's called pride.

You earn it during some tough weeks of Basic Training. You earn even more during an advanced training period, where you learn a skill you chose when you enlisted.

After a few months of active duty, you start serving 16 hours a month at your local unit, plus two weeks each year of Annual Training. That's how you earn a good extra income.

A lot is asked of you in the Army Reserve. That's why part of what you earn is pride.

Military Policeman


Computer Programmer

Crane Operator

Armor Crewman

Pharmacy Specialist

Radio Operator

FFA in Action

Mother Duck

Ewing, Nebraska, members played "mother" for the month of June and then turned their charges out into the big world.

The charges were 50 wood ducks from the Game and Parks Commission and were used for stocking the area as part of a commission-sponsored conservation education program.

There were three objectives to the program: to introduce the study of wildlife conservation into vocational agriculture education; make members and parents more conscious of conservation and wildlife; and, provide a boost to the state's wood duck population and increase the bird's range.

Wood ducks nearly always return to nest in the areas where they were raised as ducklings, seldom selecting new areas. Therefore, the population is very slow in spreading, even to areas where very good habitat exists.

By releasing their young wood ducks in such an area, the FFA chapter will hopefully establish a new breeding population there. This is the only FFA Wood Duck Restoration Area in the state of Nebraska. The chicks were brought to the chapter between two and three weeks old and placed in a brooding house at Ray Spangler's, a Greenhand in the chapter. This project was used for motivation in getting all Greenhands involved.

The chapter built special wooden nests, 12 inches by 20 inches, with hinged doors. They have been installed in the area so the ducks will be able to nest in them and keep their eggs protected. (*Dennis Cetak, Advisor*)

Ray Spangler is putting up one of the nests which FFA hopes will keep wood ducks in the local area. Cameras were on hand for the release of the ducks.

Tell Tale Teeth

Members of the Mora FFA Chapter, Minnesota, have been involved in a service project to assist the Department of Natural Resources' Division of Fish and Wildlife during the past deer season.

The work involved removing the front teeth from deer whose owners volunteered to give them at the deer registration stations. Like cattle, deer have front teeth only on the lower jaw, and all eight front teeth can be harvested quickly by cutting off about 1¼ inches of the forward end of the jaw. On heads intended for mounting, the lower lip was carefully skinned back before the jaw was cut. Since taxidermists no longer use the skulls in mounting heads—they use styrofoam forms—no damage results from removal of the teeth and part of the jaw.

Hunters were informed that donation of their deer's teeth would help the Division of Fish and Wildlife determine: 1) the number of deer harvested per each age group, 2) the number of fawns produced this year, and 3) deer production in their hunting area compared with other areas. The information is gathered by sectioning the roots of the teeth and examining and testing the sections. Nearly all of the hunters were willing cooperators.

In recent years, Area Game Manager Lee Hemness has supervised and conducted this work. Another duty assignment at St. Croix Park prevented his doing it this year so FFA members volunteered to help.

(Continued on Page 54)

Tire-A-Thon

Tracy, Minnesota, FFA members and their advisors jogged and pushed tractor tire about 50 miles last year to call attention to FFA WEEK and also to raise money for the American Cancer Society. They actually earned $300. At left are Rick Ziemke and Ed Carter doing their stint and Advisor Schiller, right.

Get One
(or four or five)
for Yourself

These Official FFA Bicentennial Calendars will help you proudly display your pride for FFA and America. Get them for your room, office, barn, kitchen, feed room, classroom, grandparents' home.

'76 FFA Bicentennial Calendars

SPECIAL PUBLIC RELATIONS PACKAGE FOR CHAPTERS

Chapters should get in an order for Calendars to distribute in the community, too. At the bank, fire station, post office, county court house, elevator, veterinarian's office, school library, or principal's office. Encourage your chapter to order now.

50 Home & Office Style — 25 Desk Style

15 Poster Style — 25 Wallet Style

Regular $71.25 Value — All for **$50.00**

Includes Shipping Costs, too!

Please send the following:

_____Set of All Four Styles @ $2.00 ($save 50¢) _____

_____HOME & OFFICE @ 75¢ _____

_____DESK @ 65¢ _____

_____POSTER @ $1.00 _____

_____Wallet @ 10¢ if ordered with another style _____

OR

_____WALLET @ 25¢ _____

_____SPECIAL PUBLIC RELATIONS PACKAGE @ $50.00 _____

(Shipping and Postage is included in Price)
(Va. orders add 4% state tax)

TOTAL CASH OR CHECK ENCLOSED _____

Please send to:

Name _____

Chapter _____

Address _____

City & State _____ ZIP _____

Clip & Mail this Coupon to:

Official FFA Calendar Department
The National FUTURE FARMER
P.O. Box 15130
Alexandria, Va. 22309

extra income SELL showing this FREE SAMPLE

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FFA in Action

(Continued from Page 52)

Before the opening of deer season, Hemness put on a program at Mora High. He explained the program's purpose, demonstrated the method of collecting the teeth, and illustrated the recording of the needed information on the envelope which would contain each set of teeth. Anticipating the need for this demonstration, Hemness had frozen and kept the heads of two deer which had been killed by cars in the weeks prior to the deer season.

FFA members assisted at the deer registration stations at Knife Lake, Mora, Brunswick and Ogilvie. Registration station operators were very cooperative and assisted the students.

Most of the student work was done in the evening and on weekends. Some of the students were able to clear their school work so they could be on duty during school hours. Each student put in two or more hours on the project, several put in 10 to 15 hours, and Jeff Haugen, Dan Walbridge, Tom Parent and Dennis Huro each invested over 24 hours in this activity.

More than 180 sets of teeth were collected by the students. (*Kanbec County Times*)

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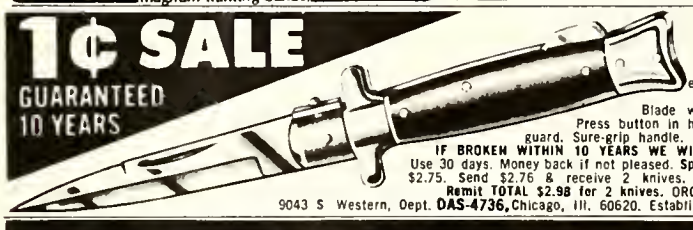

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Garden Growers

The Janesville-Parker, Wisconsin, FFA Chapter has, for the past two years, provided over 100 community gardens for members and the general public.

The five-acre community gardens provide inexpensive garden space for the general public, experience program activities for urban FFA members, a demonstration plot with nearly 200 varieties of vegetables, and a gardening field day.

Operated by FFA on a non-profit basis, the community gardens are well accepted. A garden manager is hired from interested Parker FFA members as well as a work crew of members to handle all operations for the gardens. Plants for the demonstration plots are grown by Parker FFA members also.

Cash prizes for best "gardener" are provided by Parker FFA to enhance the spirit of competition. (*Candi Howe, Reporter*)

Renita Holvey, manager of the Parker FFA garden plots, checked with one of the local gardeners who used a plot.

It took a big crew of members just to serve the pie: left to right, Carol Pemberton, Terri Watts, Ruth Noe, Judy Conder, Judy Coffman, Kathy Hatter and Marcie Jeffries. Plenty of help was on hand to help eat the huge apple pie, too.

Some Pie

In Liberty, Kentucky, Casey County vocational horticulture FFA members combined 30 bushels of apples, 200 pounds of sugar, 25 pounds of butter, 5 pounds of cinnamon and ½ pound of various spices to make the world's largest apple pie.

It took the girls all day to roll the dough, peel, pare and cube the apples and make the filling. The pie was six inches deep and eight feet in diameter and weighed 1,500 pounds according to Kentucky State highway scales.

The pan was exactly eight feet in diameter and inside the pie was six inches deep. The pie required a fork lift to put it into and take it out of the oven.

The pie was cooked in an electric oven designed by General Electric in Louisville, Kentucky, with about 30,000 watts of electricity furnished by the Kentucky Utilities Company in Liberty.

The pie was baked from 12:00 midnight on September 26 until 6:00 a.m. on Saturday, September 27. The pie was allowed to cool for four hours and was then served at 12:00 noon on Saturday. (*Roxie Douglas, Reporter*)

Junk Shop

A recycling center has been created by the Ferndale, Washington, Chapter after a suggestion by Chris Howell, ways and means committee chairman in 1974.

He brought it up at a chapter meeting and it was unanimously voted to try the project. Public support has been good and it provides a needed service for the community.

A shed had to be built, so members took their spare time and completed the $150.00 shed in one month. Builders were Rocky Oordt, Bob Benham, Bob Demeyer, John Ehrlick, Monte Walton, Bill Sager and Chris.

To keep the center in operation takes ten hours of work per week. There is a weekly detail roster plus a member is appointed chairman for each week.

About $50.00 income is generated on the average per month. Products are collected and taken to a large recycling company. Chapter receives one-half cent per pound for paper; one-fourth cent per pound for tin, aluminum, glass; and 50 cents a case for beer bottles. (*Tommy Peterson, Reporter*)

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Economic Community

(Continued from Page 27)

The Common Market countries are now self sufficient in beef.

But Common Market countries continue to be a major market for U.S. farm products. The market outlook at the present time is particularly good for feed grains and soybeans. Soybean production is not good in EC countries so this market should continue good for many years.

EC officials point out, however, that trade is a two-way street. If they are to continue to buy our farm products, we must buy their industrial goods. Right now the the balance of trade strongly favors the U.S. because of agricultural exports to Common Market countries, and this concerns EC officials.

The farmer has a voice in the Common Agricultural Policy. An organization known as COPA (for Committee of Professional Agricultural Organizations) represents 22 farm organizations and commodity groups in the nine EC countries. COPA's office is in Brussels where they maintain contact with all the community institutions.

Community spokesmen expressed a desire for better cooperation with the U.S. and this would seem to be in the best interest of the American farmer. Certainly decisions made in Brussels can affect this major market for U.S. farm products. As the Common Market countries become more self-sufficient in agriculture production, or seek a better balance of trade by making their food purchases in other countries who need their manufactured products, then certainly these actions will be reflected in the U.S. markets for farm products.

Ova Transfer

(Continued from Page 28)

come with trial and error. Zimmer says the pregnancy rate at Bova averages just over three calves per donor. Recipients accepting the transferred ovary number slightly under 50 percent which is close to artificial insemination success. "The greatest number of fertile ovaries we've taken from one cow was 20," says Zimmer, "while the most successful transplant at Bova yielded eight Holstein calves from one donor." Other companies have claimed as many as 16 calves from one cow.

The procedure is complex and expensive. Surgery at Bova requires three veterinarians, one embryologist and one technician. An operation producing two calves costs $4,800 while one yielding five calves would run about $7,500.

"Many people don't understand the real reason for transfer," says Zimmer. "It is not to provide a lot of embryos for someone to peddle so he can double his money in six months. Instead it's a way to speed and perfect herd and breed development."

"A dairyman, for example, might take a certain cow, one he knows is producing a great number of pounds of milk and rated excellent with ideal confirmation. He could take that quality cow and with embryo transplants produce perhaps ten very similar type animals. By moving those animals into his herd he has increased its value tremendously. The beef business is looking at different kinds of variables but the goal is the same—herd development and improvement. That must be the goal or the embryo transfer business will not survive."

Approximately 30 businesses offering ovum transfer were operating in 1974. Today, due to a depressed cattle market, diminished demand for exotic cattle and high feed prices there are only about half as many. Those still operating have been forced to cut overhead and find better ways to market their embryos. Zimmer says the next few months will be a critical period in determining who will stay in business.

"In terms of reproductive physiology, I think there has been more learned in the last three years than in the 80 before that," he says. "We've learned a lot about semen transplant, about hormone levels in the cow, about the actual mechanical operations of the reproductive organs of the cow, and about the estrus cycle and means to alter it in cattle. Ova transplants have opened up minds about reproductive physiology. In regard to the animal industry, it's been a catalyst. Even if the whole thing stopped tomorrow and somebody said 'Let's give it all up—it's no longer economically feasible on a commercial level', I think enough has been gained that it wasn't all useless—it was for something good. There are enough super kinds of calves around the country that will attest to that."

"Try this one. It's the udder cola."

Tire Tester

THIS is Firestone's newly developed Giant Mobile Laboratory (GML) used for testing the pulling power of tractor tires. It is equipped with a computerized electronic gear and can simulate implement pull of up to 50,000 pounds. Computerized equipment monitors and records data during a test, then processes the information for study by tire development engineers. **At right,** a tractor being held back by the GML digs into the soil. This monitors and records the amount of tractor horsepower the tires deliver to the ground. **Bottom right,** the "pilot" gets this view from the interior of the machine's control unit. Also shown are the plotter which records test results, the analog computer and the address system for communications between the GML and the tractor driver.

Metric System

(Continued from Page 35)

everyday items.

The gram—about the weight of a paper clip.

The kilogram—slightly more than two pounds.

The megagram (or metric ton)—200 pounds heavier than our ton.

The metre—a little longer than a yard.

The millimetre—the diameter of a paper clip wire.

The centimetre—the width of a paper clip.

The kilometre—somewhat farther than half a mile.

The hectare—about 2½ acres.

The litre—a bit larger than a quart.

The millilitre—five of them make a teaspoon.

The above metric units along with those for time, electricity, and temperature, are what we'll be using when the United States becomes a metric nation.

According to experts the whole trick to adapting this form of measurement is to "Think Metric." The system would be very easy to learn if we had had no other one before to use. However, the main difficulty is unlearning the old English system. It will be much more difficult if you insist on thinking of an animal's weight in pounds and then converting it to kilograms, rather than establishing the weight in kilograms first.

Thinking metric requires a lot of practice. Try to look at objects and guess their weights, temperatures, volumes and sizes in metric units. The sooner and more frequently you do this the easier metric conversion will be.

While America waits for the official word on metrication, you can prepare yourself for it through education, reading newspaper articles and talking to others.

Throughout industry, business, government and education, a majority of people feel that metrication will come within the next few years. Prepare yourself for it now. Think metric.

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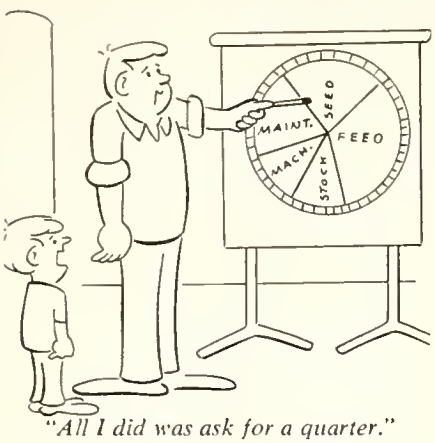
A small girl, visiting her grandparents' farm, was quite fascinated when a peacock spread his tail and began to strut. Running into the house she called, *"Grandma, one of your chickens just bloomed!"*

Victor Dubbink
Hamilton, Michigan



"All I did was ask for a quarter."

Fortune teller: *"You will be poor and unhappy until you are 40."*

Client: *"Then what?"*

Fortune teller: *"You'll be used to it."*

Thomas LaMance
Modesto, California

The minister's daughter returned home at 3 o'clock in the morning from a dance. Her father greeted her sternly, *"Good morning, child of the Devil."*

Respectfully and demurely she replied, *"Good morning, father."*

Mrs. Mary Noblett
Deland, Florida

The barber wasn't very good at his job. After being shaved, the customer asked for a drink of water.

Barber: *"Are you thirsty?"*

Customer: *"No, I just wanted to see if my face still holds water."*

Parrish Murphy
Ontario, California

The boy went to the store to get some yarn and asked, *"Is this enough for three socks?"*

The store clerk asked, *"Why do you want to make three socks?"*

The boy replied, *"My brother wrote in his letter 'three weeks in the army and I've grown another foot!' "*

Kim Johnsen
Muskogee, Oklahoma

A cowboy had filled out a job application blank and later was interviewed by the personnel manager. Noting that the applicant had omitted the year of his birth, the personnel manager said, *"I see your birthday is February 19. May I ask what year?"*

"Every year," the cowboy replied.

S. Fred Smith
Santa Ynez, California

"Look, Mother," cried little Danny. *"There's a big bear in the back yard."*

"You know perfectly well that's Johnny Jackson's dog," his mother said. *"Now go to your room and ask God to forgive you for telling a lie."*

Later, when Danny came back downstairs, his mother asked him. *"Did you ask God to forgive you?"*

"Yes, I did." Danny said. *"And He said it was all right. God said the first time He saw Johnny Jackson's dog He thought it was a bear, too!"*

Susan Thornhill
Hartville, Missouri

Reporter: *"What shall I say about the peroxide blondes who made such a fuss at the ball game?"*

Editor: *"Say 'the bleachers went wild.' "*

Alan Lovelady
Grass Valley, California

An older sister was warning her little brother that he could not talk in church. *"Why won't they let me?"* he asked.

She pointed to the men at the back of the church and said, *"Do you see those men back there? They are hushers."*

Harold Benson
Mocksville, North Carolina

Teddy: *"I went riding this morning."*

Betty: *"Horseback?"*

Teddy: *"Oh, yes. He got back two hours before I did!"*

Joseph Hayes
Champlain, Virginia

"That new cowhand I hired yesterday doesn't know much about farming."

Question: *"How's that?"*

Answer: *"He found some milk bottles behind the barn, then came up to me and said he'd found a cow's nest!"*

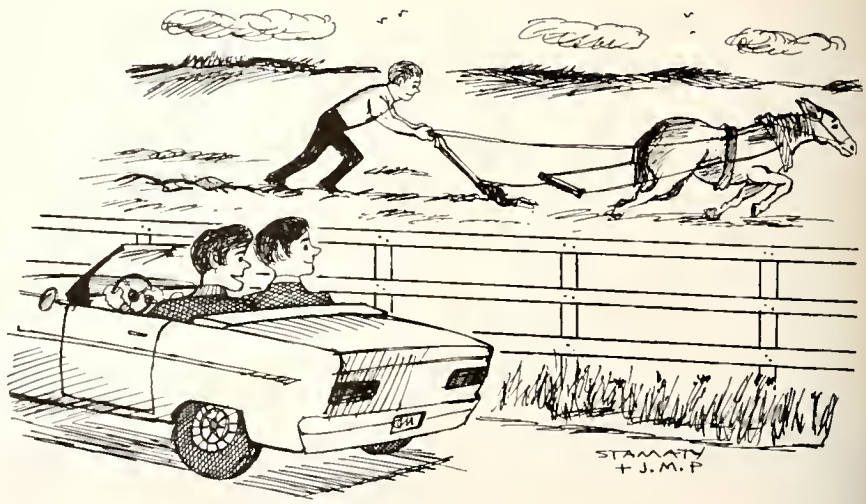
Kim Kelling
Danville, Ohio

Little five-year-old Betty was taken to church for the first time. As she walked out of the church with her parents, the preacher stopped her, leaned over and asked her how she liked church.

"I liked the music okay," said Betty, *"but the commercial was too long."*

Hansell Wolf
Philadelphia, Pennsylvania

Charlie, the Greenhand



"Charlie is taking this energy saving seriously."

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